


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER federal 321-29-9-19				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT PARIETTE BENCH				
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR GASCO PRODUCTION COMPANY						7. OPERATOR PHONE				
8. ADDRESS OF OPERATOR 8 Inverness Dr. East, Suite 100, Englewood, CO, 80112						9. OPERATOR E-MAIL				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) utu76034			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		689 FNL 2020 FEL		NWNE	29	9.0 S	19.0 E	S		
Top of Uppermost Producing Zone		1456 FNL 1978 FEL		SWNE	29	9.0 S	19.0 E	S		
At Total Depth		1456 FNL 1978 FEL		SWNE	29	9.0 S	19.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1456			23. NUMBER OF ACRES IN DRILLING UNIT 280				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1320			26. PROPOSED DEPTH MD: 11907 TVD: 11680				
27. ELEVATION - GROUND LEVEL 4817			28. BOND NUMBER ut1233			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 41-3530				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	17.5	13.375	0 - 100	48.0	H-40 ST&C	8.3	50/50 Poz	110	1.31	14.3
Surf	12.25	8.625	0 - 2500	28.0	J-55 ST&C	9.0	Premium Lite High Strength	415	3.21	11.0
							Class G	145	1.17	15.8
Prod	7.875	4.5	0 - 11907	11.6	HCP-110 LT&C	11.6	Premium Lite High Strength	540	2.26	12.0
							50/50 Poz	1320	1.31	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Roger Knight				TITLE EHS Supervisor			PHONE 303 996-1803			
SIGNATURE				DATE 09/11/2012			EMAIL rknight@gascoenergy.com			
API NUMBER ASSIGNED 43047530780000				APPROVAL  Permit Manager						

RECEIVED: September 18, 2012

Gasco Production Company
Federal 321-29-9-19
SWNE, Section 29, Township 9 South, Range 19 East
Uintah County, Utah
Lease No. UTU- 76034

ONSHORE OIL & GAS ORDER NO. 1

Drilling Program

1. Estimated Tops of Important Geological Markers

Formation	Depth	Subsea
Green River	surface	surface
Wasatch	5310'	-470'
Dark Canyon	9070'	-4230'
Lower Mesaverde	10670'	-5830'
Castlegate	11530'	-6690'
TD	11680'	

2. Estimated Depth of Anticipated Water, Oil, Gas or Mineral Formations

Substance	Formation	Depth
Gas	Dark Canyon	9070' – 10669'
Gas	Lower Mesaverde	10670' - 11530'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment

All well control equipment will be in accordance to Onshore Order No. 2 for 10M Systems and are as follows:

10,000# BOP with 4 ½" Pipe Rams
 10,000# BOP with Blind Rams
 5,000# Annular

Ram type preventers and associated equipment shall be tested to the approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline on pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Pressure Control Equipment Continued

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BPOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

BOP systems shall be consistent with API RP 53 Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling cement plugs.

The District Office will be notified, with sufficient lead time, in order to have a BLM representative on location during testing.

- a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not yet been chosen to drill this well, most of the equipment for this depth will utilize 10M working BOP.
- b. A choke line and kill line are to be properly installed. The kill line is not to be used as a fill-up line.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

**Special Drilling Operations to be followed by Gasco Production Company during operations
air/gas drilling of Surface Hole**

The following equipment will be operational and implemented during any air/gas drilling operations for the surface hole as per Onshore Order 2 III. E. 1.:

Properly lubricated and maintained rotating head
Spark Arresters on engines or water cooled exhaust
Blooie line discharge 100 feet from well bore and securely anchored
Straight run on blooie line unless other wised approved
Deduster equipment
All cuttings and circulating medium shall be directed into a reserve or blooie pit
Float valve above bit
Automatic igniter or continuous pilot light on the blooie line
Compressors located in opposite direction from the blooie line a minimum of 100 feet from the well bore

Variances Requested:

Variance for Requirement BOPE

Properly lubricated and maintained rotating head and air bowl diverter system.

Variance for Requirement Mud Material

Mud circulating equipment, water and mud materials sufficient to maintain the capacity of the hole and circulating tanks or pits. Skid pump shall be available to pump water from an auxiliary water source such as reserve pit or water storage tank for well control purposes.

Variance for Requirement Blooie Line Length

Requirement for blooie line discharge of 100 feet from well. Blooie line discharge distance between well and reserve pit is 60 feet.

4. Proposed Casing and Cementing Program

a. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones abnormally pressured zones and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors including: presence/absence of hydrocarbons, fracture gradients, usable water zones, formation pressures, lost circulation zones, other minerals, or other unusual characteristics. All indications of usable water shall be reported.

b. Casing Program

	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Grade</u>	<u>Type</u>
Conductor	100'	17 1/2"	13 3/8"	H-40 #48	STC
Surface	2500'	12 1/4"	8 5/8"	J-55 #28	STC
Production	1000'	7 7/8"	4 1/2"	HCP-110#11.6	BTC
	11,907'	7 7/8"	4 1/2"	HCP-110#11.6	LTC

c. Casing design subject to revision based on geologic conditions encountered.

d. Cement Program

	<u>Est. Top of Cement</u>	<u>Sacks/Cement Type</u>	<u>Yield</u>	<u>Supply Wt.</u>	
Conductor	surface	110/ POZ /Ready Mix	1.31	14.3	
Surface	surface	415/ Premium Lite II	3.21	11.0	Lead
		145/ Class G	1.17	15.8	Tail
Production	surface	540/ Premium Lite II	2.26	12.0	Lead
		1320/ 50/50 POZ	1.31	14.3	Tail

e. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

f. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.

g. The following reports shall be filed with the District Manager within 30 days after the work is completed.

1. Progress reports, form 3160-5 "Sundry Notices and Reports on Wells", must include complete information concerning:

- a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.

- b. Temperature or bond log must be submitted for each well where the casing cement was not circulated to the surface.

h. Auxiliary equipment to be used is as follows:

1. Kelly cock
2. A bit float
3. A sub with full opening valve.

5. Drilling Fluids Program:

<u>Interval</u>	<u>Type</u>	<u>Wt. (ppg)</u>	<u>Viscosity</u>	<u>pH</u>	<u>Water Loss</u>
0-100'	Air Mist	8.33	NA	NA	NA
100'-2500'	Air Mist	9.0	35	NA	NA
2500'-TD	Water Based Mud	8.3 – 11.6		10-10.5	NA

a. Sufficient quantities of mud material will be maintained on site or be readily available for the purpose of assuring well control. SPR will be recorded on a daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

b. No chromate additives will be used in the mud system on Federal lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

c. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well.

d. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

e. Water will come from: Water Right No. 41-3530.

f. Water will be hauled by commercial transport over the access roads shown on Attached Maps "A" and "B".

g. No water well will be drilled on this lease

6. Evaluation Program

The anticipated type and amount of testing, logging and coring are as follows:

a. No drill stem tests are anticipated, if DST's are run, the following requirements will be adhered to:

Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer (AO). However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DST's may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

b. The logging program will consist of Schlumberger Platform Express (or equivalent) to be run from base of surface casing to TD.

c. No cores are anticipated.

d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted no later than 30 days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well tested data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4.

Samples (cutting, fluids, and/or gases will be submitted when requested by the AO.

e. The anticipated completion program is as follows: Perform multistage fracs and complete all productive zones present in the wellbore. Produce all zones commingled.

f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

7. Abnormal Temperatures and Pressures

a. The expected bottom hole pressure is 7150psig

The maximum bottom hole temperature anticipated is 175 degrees Fahrenheit.

b. No hydrogen sulfide gas is anticipated. Abnormal pressures will be controlled with mud weight and 10000# BOP and rotating head.

8. Anticipated Starting Dates and Notifications of Operations

- a. Drilling is anticipated to commence immediately upon approval
- b. It is anticipated that the drilling of this well will take approximately 25 days.
- c. The Vernal BLM and UDOGM shall be notified of the anticipated date of location construction and anticipated spud date.
- d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior to approval from the AO will be obtained and notification given before resuming operations.
- e. The spud date will be reported orally to the AO within 48 hours of spudding. If the spudding occurs on a weekend or holiday, the report will be submitted via voice mail and/or e-mail to the AO.
- f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM and UDOGM.
- g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual or undesirable events shall be reported promptly to the AO in accordance with the requirements of NTL-3A or its revision.
- h. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, or prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- i. Should the well be successfully completed for production, the AO will be notified when the well is placed on producing status. Written notification, e-mail or otherwise, will be sent no later than 5 days following the date on which the well is placed on production.
- j. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- k. Pursuant to NTL-4A lessees or operators are authorized to vent/flare gas during initial well evaluation test, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day authorized test period.
- l. A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9.d.), shall be submitted to the BLM, Vernal Field Office and UDOGM within 60 days of installation or first production whichever occurs first. All site security regulations as specified in Onshore Order No.3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b.4.).

m. A first production conference will be scheduled within 15 days after receipt of the first production notice.

n. No well abandonment operations will commence without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed within 30 days following the completion of the well for abandonment. The report will indicate where plugs were placed and the current status of the surface restoration. Final abandonment will not be approved until the surface reclamation work has been completed to the satisfaction of the AO.

o. Pursuant to Onshore Oil and Gas Order No.1, lessees and operators have the responsibility of operating in a manner which conforms with the applicable Federal laws and regulations and with the State and local laws and regulations to the extent that such laws are applicable to operations on Federal lands.

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

Phone: (435)781-4400
Fax: (435)781-4410

After Hours:

Michael Lee Petroleum Engineer (435)828-4470

Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

Phone 801-538-5340
Fax 801-539-3940

T9S, R19E, S.L.B.&M.

GASCO PRODUCTION COMPANY

Well location, FEDERAL #321-29-9-19, located as shown in the NW 1/4 NE 1/4 of Section 29, T9S, R19E, S.L.B.&M., Uintah County, Utah

BASIS OF ELEVATION

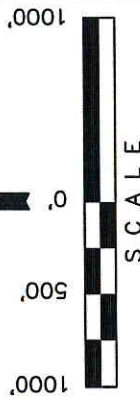
SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 14, T10S, R18E, S.L.B.&M., TAKEN FROM THE MOON BOTTOM QUADRANGLE, UTAH, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5129 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LEGEND:

- 90° SYMBOL
- PROPOSED WELL HEAD.
- SECTION CORNERS LOCATED.
- SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PROPERTY WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 04-12-12

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	03-09-12	03-19-12
PARTY	REFERENCES	
J.F. B.S. T.B.	G.L.O. PLAT	
WEATHER	FILE	
COLD		GASCO PRODUCTION COMPANY

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°00'18.48" (40.005128)	LATITUDE = 40°00'26.01" (40.007225)
LONGITUDE = 109°48'07.09" (109.801969)	LONGITUDE = 109°48'07.50" (109.802083)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°00'18.59" (40.005164)	LATITUDE = 40°00'26.14" (40.007261)
LONGITUDE = 109°48'04.58" (109.801272)	LONGITUDE = 109°48'04.99" (109.801386)

W 1/4 COR. SEC. 32
Brass Cap

2640.40' (Meas.)
500'38.54"E

N 1/4 COR. SEC. 31
1910 Brass Cap
2.0' High, Pile
Of Stones

N 89°59'36"E
2634.81' (Meas.)

Section Corner
Re-Established Using
Double Proportion
Method

N 89°57'18"E - 2636.13' (Meas.)

N 89°58'57"E - 2641.34' (Meas.)

1910 Brass Cap
1.5' High, Pile
Of Stones

29

Brass Cap

Bottom Hole

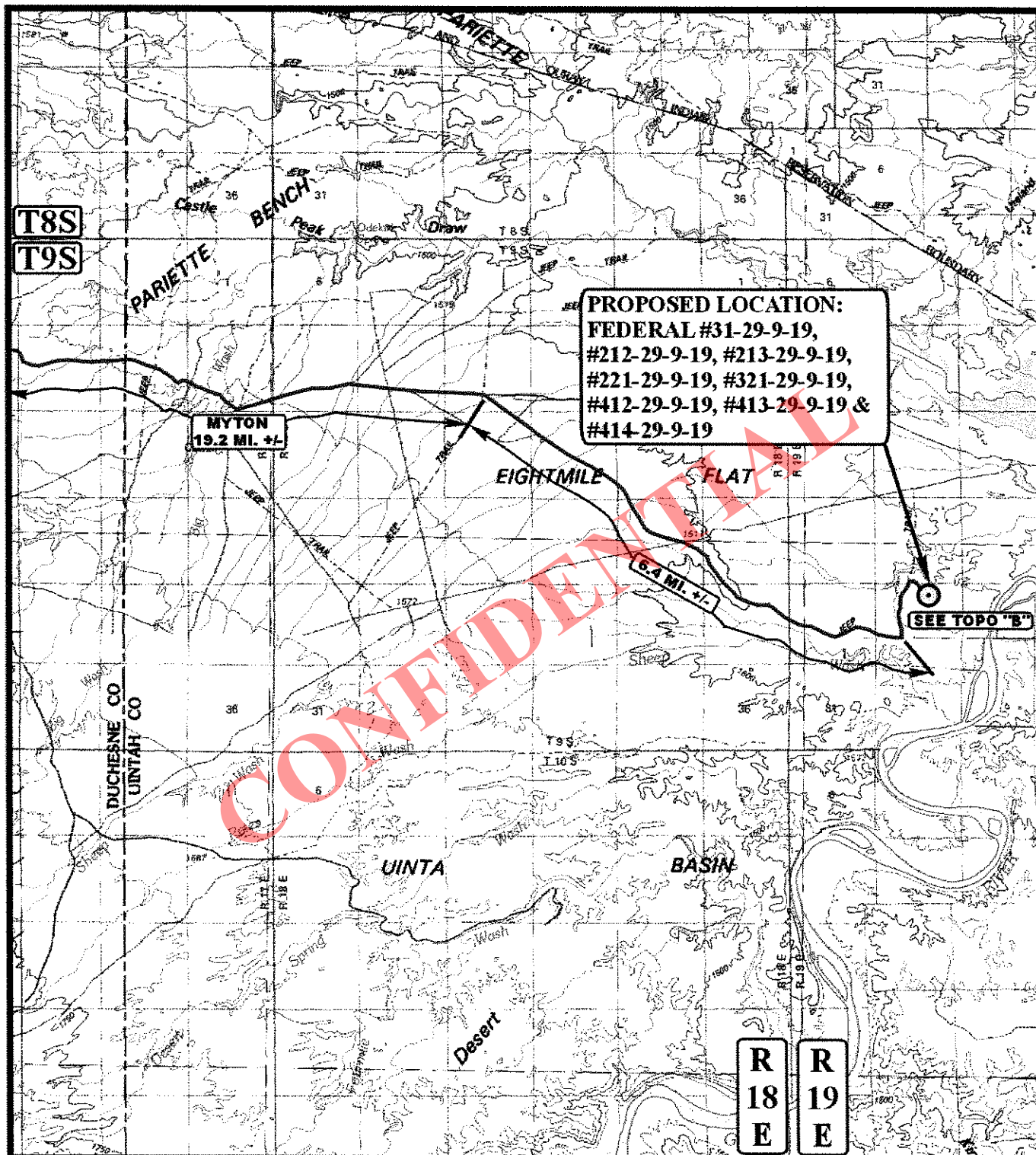
503'06.38"E
768.50'

FEDERAL #321-29-9-19
Elev. Graded Ground = 4817'

S 89°56'44"W - 2637.82' (Meas.)

1910 Brass Cap
1.0' High, Pile
Of Stones

1910 Brass Cap
1.0' High, Pile
Of Stones

**LEGEND:**

⊙ PROPOSED LOCATION

GASCO PRODUCTION COMPANY

FEDERAL #31-29-9-19, #212-29-9-19, #213-29-9-19, #221-29-9-19,
#321-29-9-19, #412-29-9-19, #413-29-9-19 & #414-29-9-19

SECTION 29, T9S, R19E, S.L.B.&M.

NW 1/4 NE 1/4



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



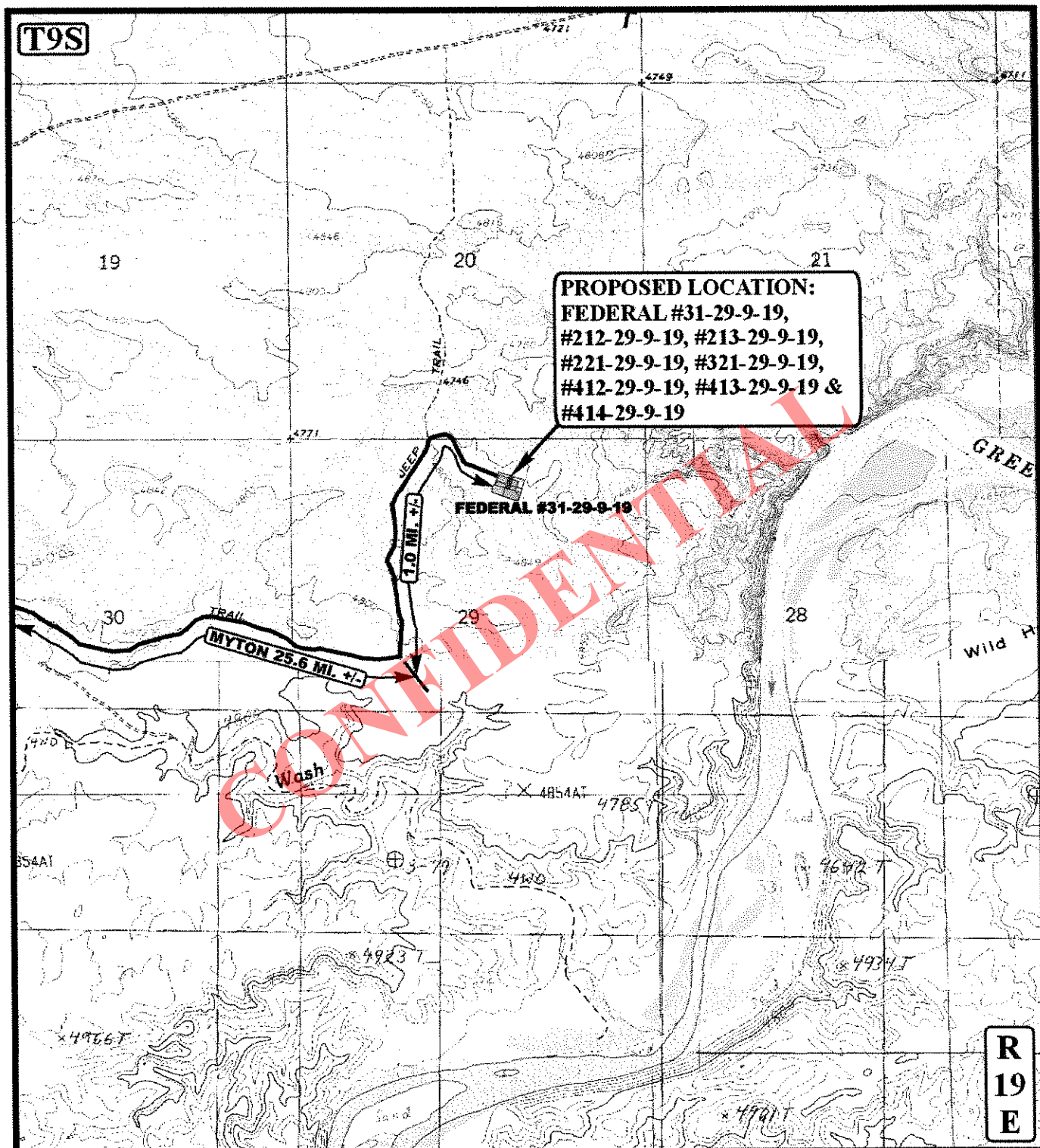
ACCESS ROAD

MAP

11	11	11	11	11
MONTH	DAY	YEAR		

SCALE: 1:100,000 | DRAWN BY: J.L.H. | REV: 04-12-12 C.I.

A
TOPO



LEGEND:

————— EXISTING ROAD
 - - - - - PROPOSED ACCESS ROAD



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



GASCO PRODUCTION COMPANY

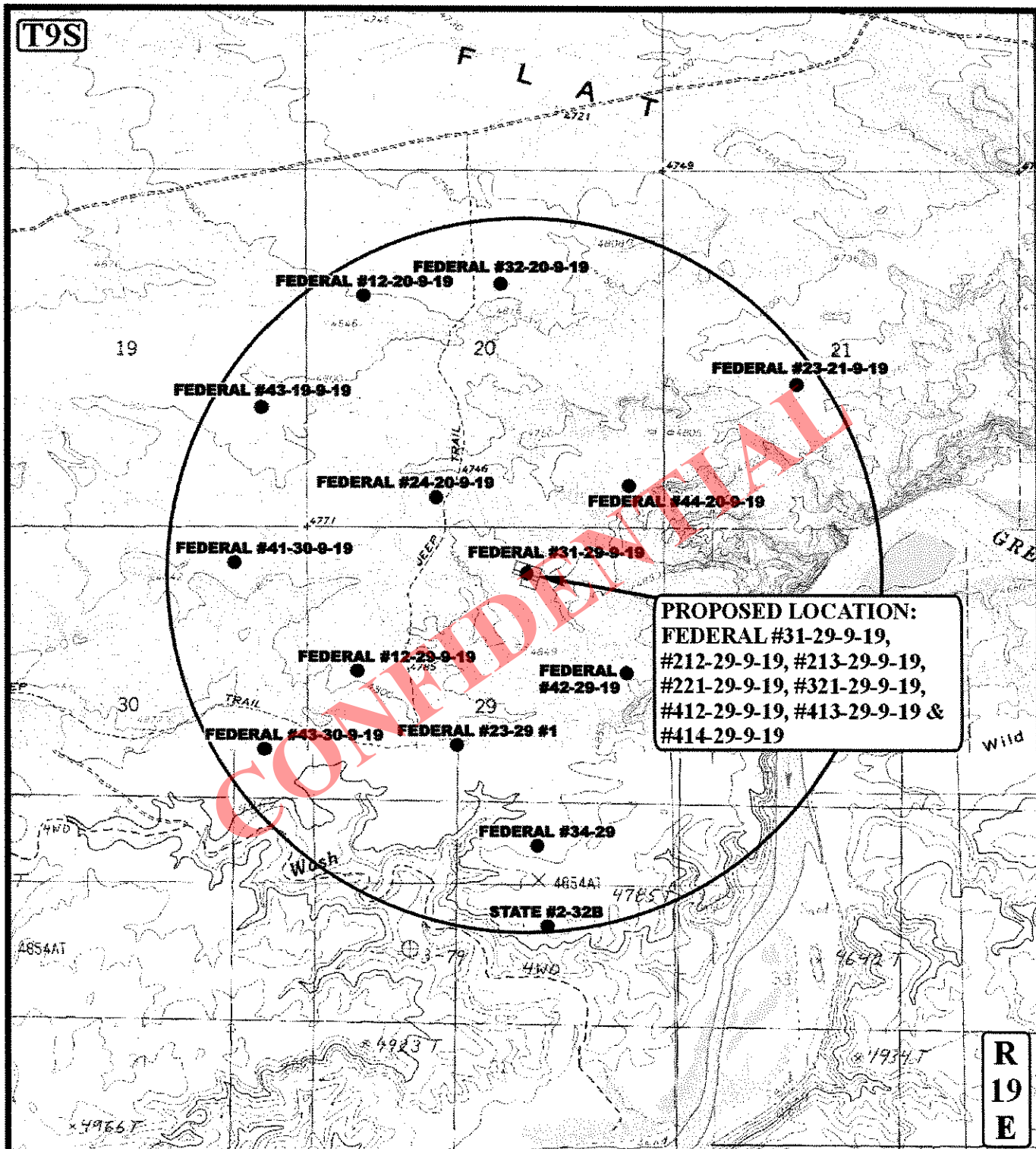
FEDERAL #31-29-9-19, #212-29-9-19, #213-29-9-19, #221-29-9-19,
 #321-29-9-19, #412-29-9-19, #413-29-9-19 & #414-29-9-19
 SECTION 29, T9S, R19E, S.L.B.&M.
 NW 1/4 NE 1/4

ACCESS ROAD
 MAP

11 11 11
 MONTH DAY YEAR

B
 TOPO

SCALE: 1" = 2000' DRAWN BY: J.L.H. REV: 04-12-12 C.I.

**LEGEND:**

- DISPOSAL WELLS
 ● PRODUCING WELLS
 ● SHUT IN WELLS
 ● ABANDONED WELLS
 ● TEMPORARILY ABANDONED



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

**GASCO PRODUCTION COMPANY**

FEDERAL #31-29-9-19, #212-29-9-19, #213-29-9-19, #221-29-9-19,
#321-29-9-19, #412-29-9-19, #413-29-9-19 & #414-29-9-19
SECTION 29, T9S, R19E, S.L.B.&M.
NW 1/4 NE 1/4

TOPOGRAPHIC
MAP

11 11 11
MONTH DAY YEAR

SCALE: 1" = 2000' **DRAWN BY: J.L.H.** **REV: 04-12-12 C.I.**

C
TOPO



Gasco Energy

Uintah County, UT (Nad 27)

Federal 31-29-9-19 Pad (Rev 4-12-12)

Federal #321-29-9-19

OH

Plan: plan3 21May12 RG

Standard Planning Report

21 May, 2012





Project: Uintah County, UT (Nad 27)
 Site: Federal 31-29-9-19 Pad (Rev 4-12-12)
 Well: Federal #321-29-9-19
 Wellbore: OH
 Design: plan3 21May12 RG
 Latitude: 40.007261
 Longitude: -109.801386
 GL: 4817.00
 KB:

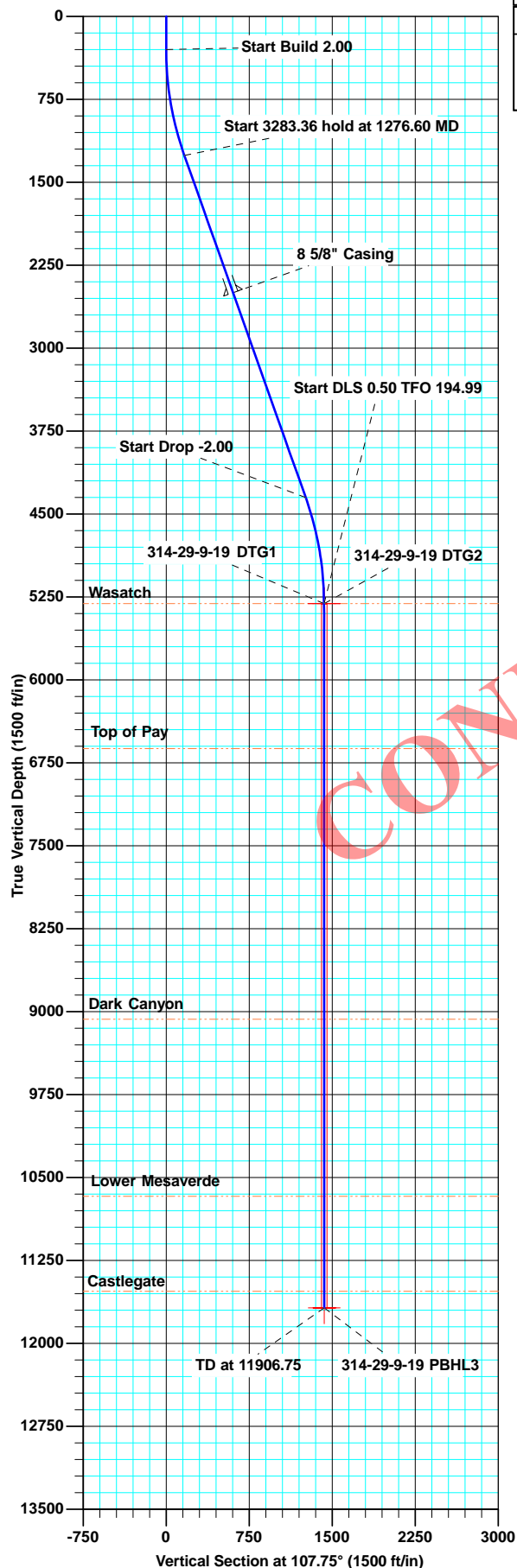


PROJECT DETAILS: Uintah County, UT (Nad 27)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Utah Central 4302
 System Datum: Mean Sea Level

Plan: plan3 21May12 RG (Federal #321-29-9-19/OH)

Created By: Rolando Garza Date: 14:21, May 21 2012



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1276.60	19.53	105.75	1257.79	-44.74	158.67	2.00	105.75	164.75	Start 3283.36 hold at 1276.60 MD
4559.95	19.53	105.75	4352.21	-342.64	1215.20	0.00	0.00	1261.81	Start Drop -2.00
5536.55	0.00	0.00	5310.00	-387.38	1373.87	2.00	180.00	1426.57	Start DLS 0.50 TFO 194.99
5627.14	0.45	194.99	5400.58	-387.73	1373.78	0.50	194.99	1426.58	Start 6279.61 hold at 5627.14 MD
11906.75	0.45	194.99	11680.00	-435.68	1360.93	0.00	0.00	1428.97	TD at 11906.75

WELL DETAILS: Federal #321-29-9-19

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	614207.85	2475776.31	40.007261	-109.801386

DESIGN TARGET DETAILS

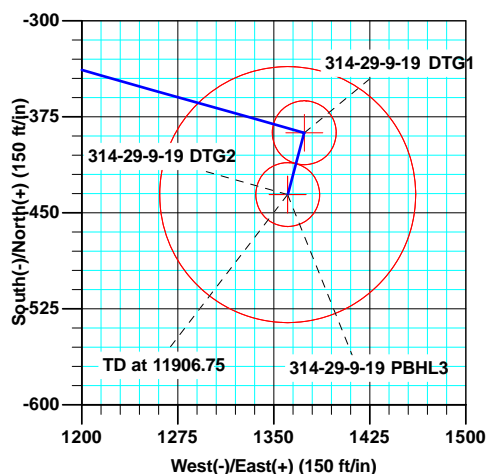
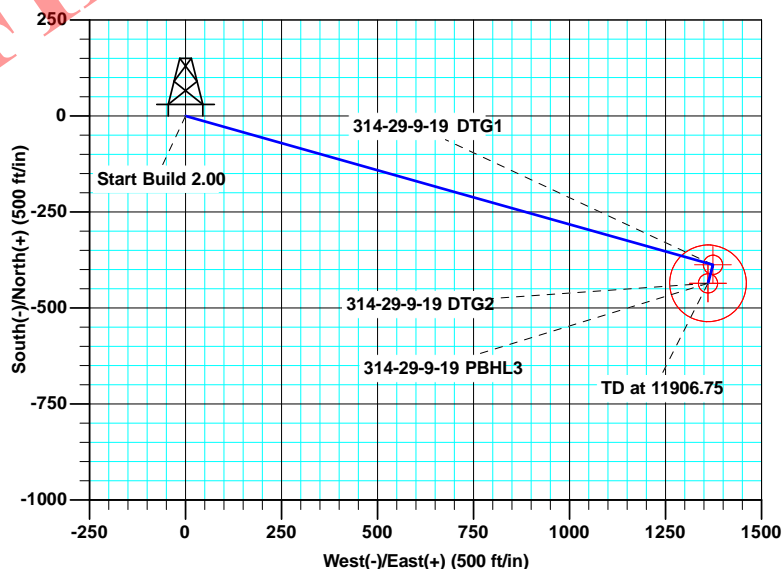
Name	DTG	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
314-29-9-19 DTG1		5310.00	-387.38	1373.87	40.006126	-109.796509	Circle (Radius: 25.00)
314-29-9-19 DTG2		5310.00	-435.68	1360.93	40.005994	-109.796558	Circle (Radius: 25.00)
314-29-9-19 PBHL3		11680.00	-435.68	1360.93	40.005994	-109.796558	Circle (Radius: 100.00)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
5310.00	5536.55	Wasatch
6622.00	6848.59	Top of Pay
9070.00	9296.67	Dark Canyon
10670.00	10896.72	Lower Mesaverde
11530.00	11756.74	Castlegate

CASING DETAILS

TVD	MD	Name	Csg Ø	Hole Ø
2500.00	2594.65	8 5/8\" Casing	8 5/8\"	12 1/4\"



Azimuths to Grid North
 True North: -1.09°
 Magnetic North: 10.01°

Magnetic Field
 Strength: 52212.5nT
 Dip Angle: 65.79°
 Date: 04/04/2012
 Model: IGRF2010

RECEIVED: September 11, 2012



Database:	CompassVM	Local Co-ordinate Reference:	Well Federal #321-29-9-19
Company:	Gasco Energy	TVD Reference:	WELL @ 4817.00ft (Original Well Elev)
Project:	Uintah County, UT (Nad 27)	MD Reference:	WELL @ 4817.00ft (Original Well Elev)
Site:	Federal 31-29-9-19 Pad (Rev 4-12-12)	North Reference:	Grid
Well:	Federal #321-29-9-19	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	plan3 21May12 RG		

Project	Uintah County, UT (Nad 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site		Federal 31-29-9-19 Pad (Rev 4-12-12)			
Site Position:		Northing:	614,227.74 usft	Latitude:	40.007319
From:	Lat/Long	Easting:	2,475,709.81 usft	Longitude:	-109.801622
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	1.09

Well	Federal #321-29-9-19					
Well Position	+N/-S	-19.89 ft	Northing:	614,207.86 usft	Latitude:	40.007261
	+E/-W	66.50 ft	Easting:	2,475,776.30 usft	Longitude:	-109.801386
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,817.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/04/12	11.10	65.79	52,212

Design	plan3 21May12 RG			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	107.75

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,276.60	19.53	105.75	1,257.79	-44.74	158.67	2.00	2.00	0.00	105.75	
4,559.95	19.53	105.75	4,352.21	-342.64	1,215.20	0.00	0.00	0.00	0.00	
5,536.55	0.00	0.00	5,310.00	-387.38	1,373.87	2.00	-2.00	0.00	180.00	314-29-9-19 DTG1
5,627.14	0.45	194.99	5,400.58	-387.73	1,373.78	0.50	0.50	-182.16	194.99	
11,906.75	0.45	194.99	11,680.00	-435.68	1,360.93	0.00	0.00	0.00	0.00	314-29-9-19 PBHL3



Database:	CompassVM	Local Co-ordinate Reference:	Well Federal #321-29-9-19
Company:	Gasco Energy	TVD Reference:	WELL @ 4817.00ft (Original Well Elev)
Project:	Uintah County, UT (Nad 27)	MD Reference:	WELL @ 4817.00ft (Original Well Elev)
Site:	Federal 31-29-9-19 Pad (Rev 4-12-12)	North Reference:	Grid
Well:	Federal #321-29-9-19	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	plan3 21May12 RG		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	105.75	399.98	-0.47	1.68	1.74	2.00	2.00	0.00
500.00	4.00	105.75	499.84	-1.89	6.72	6.97	2.00	2.00	0.00
600.00	6.00	105.75	599.45	-4.26	15.10	15.68	2.00	2.00	0.00
700.00	8.00	105.75	698.70	-7.57	26.83	27.86	2.00	2.00	0.00
800.00	10.00	105.75	797.47	-11.81	41.89	43.50	2.00	2.00	0.00
900.00	12.00	105.75	895.62	-16.99	60.25	62.56	2.00	2.00	0.00
1,000.00	14.00	105.75	993.06	-23.09	81.90	85.04	2.00	2.00	0.00
1,100.00	16.00	105.75	1,089.64	-30.12	106.81	110.91	2.00	2.00	0.00
1,200.00	18.00	105.75	1,185.27	-38.05	134.95	140.13	2.00	2.00	0.00
1,276.60	19.53	105.75	1,257.79	-44.74	158.67	164.75	2.00	2.00	0.00
Start 3283.36 hold at 1276.60 MD									
1,300.00	19.53	105.75	1,279.85	-46.86	166.20	172.57	0.00	0.00	0.00
1,400.00	19.53	105.75	1,374.09	-55.93	198.38	205.98	0.00	0.00	0.00
1,500.00	19.53	105.75	1,468.34	-65.01	230.55	239.40	0.00	0.00	0.00
1,600.00	19.53	105.75	1,562.58	-74.08	262.73	272.81	0.00	0.00	0.00
1,700.00	19.53	105.75	1,656.83	-83.15	294.91	306.22	0.00	0.00	0.00
1,800.00	19.53	105.75	1,751.08	-92.23	327.09	339.64	0.00	0.00	0.00
1,900.00	19.53	105.75	1,845.32	-101.30	359.27	373.05	0.00	0.00	0.00
2,000.00	19.53	105.75	1,939.57	-110.37	391.45	406.46	0.00	0.00	0.00
2,100.00	19.53	105.75	2,033.81	-119.45	423.63	439.87	0.00	0.00	0.00
2,200.00	19.53	105.75	2,128.06	-128.52	455.80	473.29	0.00	0.00	0.00
2,300.00	19.53	105.75	2,222.30	-137.59	487.98	506.70	0.00	0.00	0.00
2,400.00	19.53	105.75	2,316.55	-146.67	520.16	540.11	0.00	0.00	0.00
2,500.00	19.53	105.75	2,410.79	-155.74	552.34	573.53	0.00	0.00	0.00
2,594.65	19.53	105.75	2,500.00	-164.33	582.80	605.15	0.00	0.00	0.00
8 5/8" Casing									
2,600.00	19.53	105.75	2,505.04	-164.81	584.52	606.94	0.00	0.00	0.00
2,700.00	19.53	105.75	2,599.29	-173.89	616.70	640.35	0.00	0.00	0.00
2,800.00	19.53	105.75	2,693.53	-182.96	648.88	673.76	0.00	0.00	0.00
2,900.00	19.53	105.75	2,787.78	-192.03	681.05	707.18	0.00	0.00	0.00
3,000.00	19.53	105.75	2,882.02	-201.10	713.23	740.59	0.00	0.00	0.00
3,100.00	19.53	105.75	2,976.27	-210.18	745.41	774.00	0.00	0.00	0.00
3,200.00	19.53	105.75	3,070.51	-219.25	777.59	807.41	0.00	0.00	0.00
3,300.00	19.53	105.75	3,164.76	-228.32	809.77	840.83	0.00	0.00	0.00
3,400.00	19.53	105.75	3,259.00	-237.40	841.95	874.24	0.00	0.00	0.00
3,500.00	19.53	105.75	3,353.25	-246.47	874.13	907.65	0.00	0.00	0.00
3,600.00	19.53	105.75	3,447.49	-255.54	906.30	941.07	0.00	0.00	0.00
3,700.00	19.53	105.75	3,541.74	-264.62	938.48	974.48	0.00	0.00	0.00
3,800.00	19.53	105.75	3,635.99	-273.69	970.66	1,007.89	0.00	0.00	0.00
3,900.00	19.53	105.75	3,730.23	-282.76	1,002.84	1,041.30	0.00	0.00	0.00
4,000.00	19.53	105.75	3,824.48	-291.84	1,035.02	1,074.72	0.00	0.00	0.00
4,100.00	19.53	105.75	3,918.72	-300.91	1,067.20	1,108.13	0.00	0.00	0.00
4,200.00	19.53	105.75	4,012.97	-309.98	1,099.38	1,141.54	0.00	0.00	0.00
4,300.00	19.53	105.75	4,107.21	-319.06	1,131.55	1,174.95	0.00	0.00	0.00
4,400.00	19.53	105.75	4,201.46	-328.13	1,163.73	1,208.37	0.00	0.00	0.00
4,500.00	19.53	105.75	4,295.70	-337.20	1,195.91	1,241.78	0.00	0.00	0.00
4,559.95	19.53	105.75	4,352.21	-342.64	1,215.20	1,261.81	0.00	0.00	0.00
Start Drop -2.00									
4,600.00	18.73	105.75	4,390.04	-346.20	1,227.84	1,274.93	2.00	-2.00	0.00



Database:	CompassVM	Local Co-ordinate Reference:	Well Federal #321-29-9-19
Company:	Gasco Energy	TVD Reference:	WELL @ 4817.00ft (Original Well Elev)
Project:	Uintah County, UT (Nad 27)	MD Reference:	WELL @ 4817.00ft (Original Well Elev)
Site:	Federal 31-29-9-19 Pad (Rev 4-12-12)	North Reference:	Grid
Well:	Federal #321-29-9-19	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	plan3 21May12 RG		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,700.00	16.73	105.75	4,485.29	-354.47	1,257.15	1,305.36	2.00	-2.00	0.00
4,800.00	14.73	105.75	4,581.54	-361.83	1,283.24	1,332.46	2.00	-2.00	0.00
4,900.00	12.73	105.75	4,678.67	-368.27	1,306.08	1,356.18	2.00	-2.00	0.00
5,000.00	10.73	105.75	4,776.58	-373.78	1,325.65	1,376.50	2.00	-2.00	0.00
5,100.00	8.73	105.75	4,875.14	-378.37	1,341.92	1,393.39	2.00	-2.00	0.00
5,200.00	6.73	105.75	4,974.22	-382.02	1,354.87	1,406.83	2.00	-2.00	0.00
5,300.00	4.73	105.75	5,073.72	-384.73	1,364.48	1,416.81	2.00	-2.00	0.00
5,400.00	2.73	105.75	5,173.50	-386.50	1,370.74	1,423.31	2.00	-2.00	0.00
5,500.00	0.73	105.75	5,273.45	-387.32	1,373.65	1,426.33	2.00	-2.00	0.00
5,536.55	0.00	0.00	5,310.00	-387.38	1,373.87	1,426.57	2.00	-2.00	0.00
Start DLS 0.50 TFO 194.99 - Wasatch									
5,600.00	0.32	194.99	5,373.45	-387.55	1,373.82	1,426.57	0.50	0.50	0.00
5,627.14	0.45	194.99	5,400.58	-387.73	1,373.78	1,426.58	0.50	0.50	0.00
Start 6279.61 hold at 5627.14 MD									
5,700.00	0.45	194.99	5,473.45	-388.28	1,373.63	1,426.61	0.00	0.00	0.00
5,800.00	0.45	194.99	5,573.44	-389.05	1,373.42	1,426.65	0.00	0.00	0.00
5,900.00	0.45	194.99	5,673.44	-389.81	1,373.22	1,426.69	0.00	0.00	0.00
6,000.00	0.45	194.99	5,773.44	-390.57	1,373.01	1,426.72	0.00	0.00	0.00
6,100.00	0.45	194.99	5,873.43	-391.34	1,372.81	1,426.76	0.00	0.00	0.00
6,200.00	0.45	194.99	5,973.43	-392.10	1,372.61	1,426.80	0.00	0.00	0.00
6,300.00	0.45	194.99	6,073.43	-392.86	1,372.40	1,426.84	0.00	0.00	0.00
6,400.00	0.45	194.99	6,173.42	-393.63	1,372.20	1,426.88	0.00	0.00	0.00
6,500.00	0.45	194.99	6,273.42	-394.39	1,371.99	1,426.91	0.00	0.00	0.00
6,600.00	0.45	194.99	6,373.42	-395.15	1,371.79	1,426.95	0.00	0.00	0.00
6,700.00	0.45	194.99	6,473.41	-395.92	1,371.58	1,426.99	0.00	0.00	0.00
6,800.00	0.45	194.99	6,573.41	-396.68	1,371.38	1,427.03	0.00	0.00	0.00
6,848.59	0.45	194.99	6,622.00	-397.05	1,371.28	1,427.05	0.00	0.00	0.00
Top of Pay									
6,900.00	0.45	194.99	6,673.41	-397.45	1,371.17	1,427.07	0.00	0.00	0.00
7,000.00	0.45	194.99	6,773.41	-398.21	1,370.97	1,427.10	0.00	0.00	0.00
7,100.00	0.45	194.99	6,873.40	-398.97	1,370.77	1,427.14	0.00	0.00	0.00
7,200.00	0.45	194.99	6,973.40	-399.74	1,370.56	1,427.18	0.00	0.00	0.00
7,300.00	0.45	194.99	7,073.40	-400.50	1,370.36	1,427.22	0.00	0.00	0.00
7,400.00	0.45	194.99	7,173.39	-401.26	1,370.15	1,427.26	0.00	0.00	0.00
7,500.00	0.45	194.99	7,273.39	-402.03	1,369.95	1,427.29	0.00	0.00	0.00
7,600.00	0.45	194.99	7,373.39	-402.79	1,369.74	1,427.33	0.00	0.00	0.00
7,700.00	0.45	194.99	7,473.38	-403.55	1,369.54	1,427.37	0.00	0.00	0.00
7,800.00	0.45	194.99	7,573.38	-404.32	1,369.33	1,427.41	0.00	0.00	0.00
7,900.00	0.45	194.99	7,673.38	-405.08	1,369.13	1,427.45	0.00	0.00	0.00
8,000.00	0.45	194.99	7,773.37	-405.84	1,368.92	1,427.48	0.00	0.00	0.00
8,100.00	0.45	194.99	7,873.37	-406.61	1,368.72	1,427.52	0.00	0.00	0.00
8,200.00	0.45	194.99	7,973.37	-407.37	1,368.52	1,427.56	0.00	0.00	0.00
8,300.00	0.45	194.99	8,073.36	-408.14	1,368.31	1,427.60	0.00	0.00	0.00
8,400.00	0.45	194.99	8,173.36	-408.90	1,368.11	1,427.64	0.00	0.00	0.00
8,500.00	0.45	194.99	8,273.36	-409.66	1,367.90	1,427.67	0.00	0.00	0.00
8,600.00	0.45	194.99	8,373.36	-410.43	1,367.70	1,427.71	0.00	0.00	0.00
8,700.00	0.45	194.99	8,473.35	-411.19	1,367.49	1,427.75	0.00	0.00	0.00
8,800.00	0.45	194.99	8,573.35	-411.95	1,367.29	1,427.79	0.00	0.00	0.00
8,900.00	0.45	194.99	8,673.35	-412.72	1,367.08	1,427.83	0.00	0.00	0.00
9,000.00	0.45	194.99	8,773.34	-413.48	1,366.88	1,427.87	0.00	0.00	0.00
9,100.00	0.45	194.99	8,873.34	-414.24	1,366.68	1,427.90	0.00	0.00	0.00
9,200.00	0.45	194.99	8,973.34	-415.01	1,366.47	1,427.94	0.00	0.00	0.00
9,296.67	0.45	194.99	9,070.00	-415.75	1,366.27	1,427.98	0.00	0.00	0.00



Database:	CompassVM	Local Co-ordinate Reference:	Well Federal #321-29-9-19
Company:	Gasco Energy	TVD Reference:	WELL @ 4817.00ft (Original Well Elev)
Project:	Uintah County, UT (Nad 27)	MD Reference:	WELL @ 4817.00ft (Original Well Elev)
Site:	Federal 31-29-9-19 Pad (Rev 4-12-12)	North Reference:	Grid
Well:	Federal #321-29-9-19	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	plan3 21May12 RG		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Dark Canyon									
9,300.00	0.45	194.99	9,073.33	-415.77	1,366.27	1,427.98	0.00	0.00	0.00
9,400.00	0.45	194.99	9,173.33	-416.53	1,366.06	1,428.02	0.00	0.00	0.00
9,500.00	0.45	194.99	9,273.33	-417.30	1,365.86	1,428.06	0.00	0.00	0.00
9,600.00	0.45	194.99	9,373.32	-418.06	1,365.65	1,428.09	0.00	0.00	0.00
9,700.00	0.45	194.99	9,473.32	-418.83	1,365.45	1,428.13	0.00	0.00	0.00
9,800.00	0.45	194.99	9,573.32	-419.59	1,365.24	1,428.17	0.00	0.00	0.00
9,900.00	0.45	194.99	9,673.31	-420.35	1,365.04	1,428.21	0.00	0.00	0.00
10,000.00	0.45	194.99	9,773.31	-421.12	1,364.83	1,428.25	0.00	0.00	0.00
10,100.00	0.45	194.99	9,873.31	-421.88	1,364.63	1,428.28	0.00	0.00	0.00
10,200.00	0.45	194.99	9,973.31	-422.64	1,364.43	1,428.32	0.00	0.00	0.00
10,300.00	0.45	194.99	10,073.30	-423.41	1,364.22	1,428.36	0.00	0.00	0.00
10,400.00	0.45	194.99	10,173.30	-424.17	1,364.02	1,428.40	0.00	0.00	0.00
10,500.00	0.45	194.99	10,273.30	-424.93	1,363.81	1,428.44	0.00	0.00	0.00
10,600.00	0.45	194.99	10,373.29	-425.70	1,363.61	1,428.47	0.00	0.00	0.00
10,700.00	0.45	194.99	10,473.29	-426.46	1,363.40	1,428.51	0.00	0.00	0.00
10,800.00	0.45	194.99	10,573.29	-427.22	1,363.20	1,428.55	0.00	0.00	0.00
10,896.72	0.45	194.99	10,670.00	-427.96	1,363.00	1,428.59	0.00	0.00	0.00
Lower Mesaverde									
10,900.00	0.45	194.99	10,673.28	-427.99	1,362.99	1,428.59	0.00	0.00	0.00
11,000.00	0.45	194.99	10,773.28	-428.75	1,362.79	1,428.63	0.00	0.00	0.00
11,100.00	0.45	194.99	10,873.28	-429.52	1,362.58	1,428.66	0.00	0.00	0.00
11,200.00	0.45	194.99	10,973.27	-430.28	1,362.38	1,428.70	0.00	0.00	0.00
11,300.00	0.45	194.99	11,073.27	-431.04	1,362.18	1,428.74	0.00	0.00	0.00
11,400.00	0.45	194.99	11,173.27	-431.81	1,361.97	1,428.78	0.00	0.00	0.00
11,500.00	0.45	194.99	11,273.26	-432.57	1,361.77	1,428.82	0.00	0.00	0.00
11,600.00	0.45	194.99	11,373.26	-433.33	1,361.56	1,428.85	0.00	0.00	0.00
11,700.00	0.45	194.99	11,473.26	-434.10	1,361.36	1,428.89	0.00	0.00	0.00
11,756.74	0.45	194.99	11,530.00	-434.53	1,361.24	1,428.91	0.00	0.00	0.00
Castlegate									
11,800.00	0.45	194.99	11,573.26	-434.86	1,361.15	1,428.93	0.00	0.00	0.00
11,906.75	0.45	194.99	11,680.00	-435.68	1,360.93	1,428.97	0.00	0.00	0.00
TD at 11906.75									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
314-29-9-19 DTG2 - plan misses target center by 50.00ft at 5536.69ft MD (5310.14 TVD, -387.38 N, 1373.87 E) - Circle (radius 25.00)	0.00	0.00	5,310.00	-435.68	1,360.93	613,772.18	2,477,137.24	40.005994	-109.796558
314-29-9-19 DTG1 - plan hits target center - Circle (radius 25.00)	0.00	0.00	5,310.00	-387.38	1,373.87	613,820.48	2,477,150.17	40.006126	-109.796509
314-29-9-19 PBHL3 - plan hits target center - Circle (radius 100.00)	0.00	0.00	11,680.00	-435.68	1,360.93	613,772.18	2,477,137.24	40.005994	-109.796558



Database:	CompassVM	Local Co-ordinate Reference:	Well Federal #321-29-9-19
Company:	Gasco Energy	TVD Reference:	WELL @ 4817.00ft (Original Well Elev)
Project:	Uintah County, UT (Nad 27)	MD Reference:	WELL @ 4817.00ft (Original Well Elev)
Site:	Federal 31-29-9-19 Pad (Rev 4-12-12)	North Reference:	Grid
Well:	Federal #321-29-9-19	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	plan3 21May12 RG		

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)
2,594.65	2,500.00	8 5/8" Casing	8.62	12.25

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,536.55	5,310.00	Wasatch		0.00	
6,848.59	6,622.00	Top of Pay		0.00	
9,296.67	9,070.00	Dark Canyon		0.00	
10,896.72	10,670.00	Lower Mesaverde		0.00	
11,756.74	11,530.00	Castlegate		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,276.60	1,257.79	-44.74	158.67	Start 3283.36 hold at 1276.60 MD
4,559.95	4,352.21	-342.64	1,215.20	Start Drop -2.00
5,536.55	5,310.00	-387.38	1,373.87	Start DLS 0.50 TFO 194.99
5,627.14	5,400.58	-387.73	1,373.78	Start 6279.61 hold at 5627.14 MD
11,906.75	11,680.00	-435.68	1,360.93	TD at 11906.75

**Gasco Production Company
Federal 321-29-9-19
SW NE, Section 29, Township 9 South, Range 19 East
Uintah County, Utah
Lease No. UTU- 76034**

ONSHORE OIL & GAS ORDER NO. 1

Surface Use Plan

Notification Requirements

Location Construction-	48 hours prior to construction of location and access roads
Location completion-	Prior to moving on with drilling rig.
Spud Notice-	At least 24 hours prior to spudding the well.
Casing String and Cementing-	24 hours notice prior to running casing and cementing.
BOP and Related Equipment-	24 hours prior to initiating pressure tests.
First Production Notice-	Within 5 business days after new well begins or production resumes after well has been off production for more than 90 days.

The onsite inspection for the subject well site will be conducted with at least one of the land management agency specialists, a Gasco representative and additional contractors which may include the following individuals:

Natural Resource Specialist	Bill Civish BLM Representative
Wildlife Biologist	BLM Representative
Jesse Duncan	Gasco Production Company
Scott Duncan	Gasco Production Company
Surveyor	Uintah Engineering

1. Existing Roads

See Drilling Program: Topographic Map "A".

Description of travel from plats.

2. Planned Access Road

See Drilling Program: Topographic Map "B" for location of the proposed access road.

3. Location of Existing Wells

See Drilling Program: Topographic Map "C"

4. Location of Tank Batteries and Production Facilities

- a. All permanent surface equipment will be painted Covert Green or another color approved by the land management agency.
- b. Storage tanks batteries will be surrounded by containment dike of sufficient capacity to contain at a minimum, the entire contents of the largest tank within the contained area, unless more stringent requirements are necessary as notified by the AO.
- c. A production layout will be submitted via sundry upon proven productivity of the well.
- d. All loading lines will be placed inside the berm/dike surrounding the tank battery.
- e. A Gas Meter Run will be placed within 500 ft. of the wellhead. Meter runs will be housed. The oil and gas measurement equipment will be installed on the well location. Measurement equipment will be calibrated in place prior to any deliveries. Tests for accuracy will be conducted monthly for the first three months on new installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the calibration reports will be submitted to the Vernal Field Office.
- f. Any necessary pits will be properly fenced to prevent any wildlife entry.
- g. The access road will be maintained in a safe, usable condition conducive to the climate and seasonal conditions in order to accommodate daily operation of the well and prevent erosion.
- h. No pipeline will be associated with this APD. This well will utilize the existing pipeline.

5. Location and Type of Water

- a. Water will come from: Water Right No. 41-3530.
- b. Water will be hauled by commercial transport over the access roads shown on Attached Maps "A" and "B".
- c. No water well will be drilled on this lease.

6. Source of Construction Material

- a. Any gravel used will be obtained from a commercial source.

- b. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2.3.
- c. No construction materials will be used from Federal lands.

7. Methods of Handling Waste Disposal

- a. The reserve pit will be double lined with at least 16 mil liner.
- b. All trash will be contained in an enclosed trash container through the drilling, completion, and facility construction phases and its contents removed and hauled to an approved disposal sight as needed.
- c. A chemical porta-toilet will be furnished through the drilling, and completion phases.
- d. After first production, produced waste water will be confined to an unlined pit or storage tank for a period not to exceed 90 days. During the 90 day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval.
- e. Drill cuttings are to be contained and buried in the reserve pit.
- f. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.

8. Ancillary Facilities

There are no airstrips, camps or other facilities planned during the drilling of this well except for those facilities needed for drilling rig personal, service providers and company representatives.

9. Well Site Layout

See Drilling Program: Location Layout Diagram

10. Plans for Restoration of Surface

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, materials, trash and debris not required for production.
- b. Upon completion, any hydrocarbon within the reserve pit will be removed in accordance with 43 CFR 3162.7-1.
- c. The reserve pit will be allowed to dry prior to backfilling. The reserve pit liner will be perforated and excess liner removed before backfilling. Alternatively, the pit will be pumped dry, the liner folded into the pit and buried to a minimum of 4' deep.
- d. That portion of the location not needed for production facilities or operations, or any disturbed areas upon final plug and abandonment, will be re-contoured to approximate natural contours and seeded with a

seed mixture and procedure specified by the AO. Additionally, the topsoil will be seeded with the same mixture and procedure as specified.

11. Surface Ownership

The proposed access road and well pad is on lands managed by the BLM.

12. Other Information

a. An archeological survey was conducted by Montgomery Archaeological Consultants. It is MOAC Report No. 11-297 and dated October 07 2011. The report was submitted under a separate cover.

b. A paleontological survey was conducted by SWCA. It is report number #UT12-14389-52 and dated February 07, 2012. The report was submitted under a separate cover.

c. A Special Status Plant Species Survey was conducted by SWCA. The Survey was for the Federal 31-29-9-19 Pad performed in September of 2011. The report was not written due to SWCA finding a Special Status Plant Species. SWCA recommended a consult with the BLM and other agencies to discuss possible contingencies and mitigation measures for this location.

d. If historic or archeological materials are uncovered during construction, the operator will immediately stop work and contact the AO.

e. COA's from onsite will be implemented/followed.

f. The operator will control noxious weeds along associated well pad, roads, pipelines, and surface equipment. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted and approved prior to the application of pesticides or herbicides.

g. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal lands after the conclusion of drilling operations or at any other time without BLM authorization.

h. All lease and unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notices to Lessees. The operator is fully responsible for the actions of his subcontractors.

i. A complete copy of the APD shall be on location during construction and drilling of this site.

Water Disposal

Immediately upon first production all produced water will be confined to a steel storage tank. Produced Water will be disposed of via truck transport to a State of Utah approved disposal Facility.

Wildlife Timing Stipulations COA's from onsite will be implemented/followed.

13. Lessee's or Operators Representative

Gasco Production Company
Roger Knight – EHS Supervisor
7979 East Tufts Avenue, Suite 1150
Denver, CO 80237
(303)996-1803 Direct Office

Jesse Duncan
Utah Area Manager
10569 South Parriette Road
PO Box 351
Myton, Utah 84052
(435)-646-3336 office

Certification

Please be advised that *Gasco Production Company* is considered to be the operator of the *Well Federal 321-29-9-19, SWNE Section 29, T9S, R19E, Lease No. UTU-76034, Uintah County, Utah:* and is responsible under the term and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #1233.

I herby certify that the proposed drill site and access road have been inspected and I am familiar with the conditions that currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Gasco Production Company its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. The statement is subject to the provisions of 18 U.S.C. 1000 for the filing of a false statement.



Roger Knight
Gasco Production Company



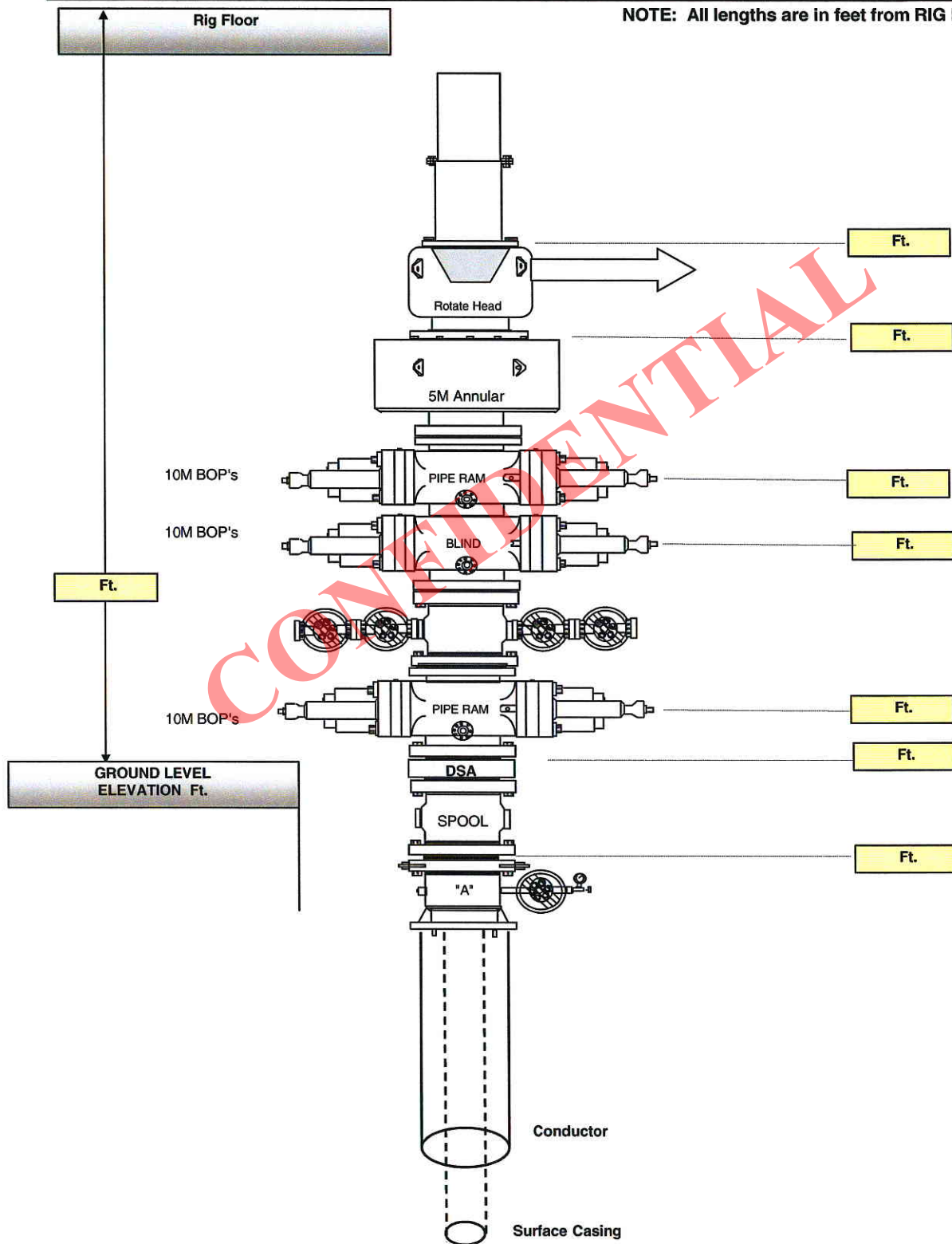
Date

Gasco
Energy
Utah Region

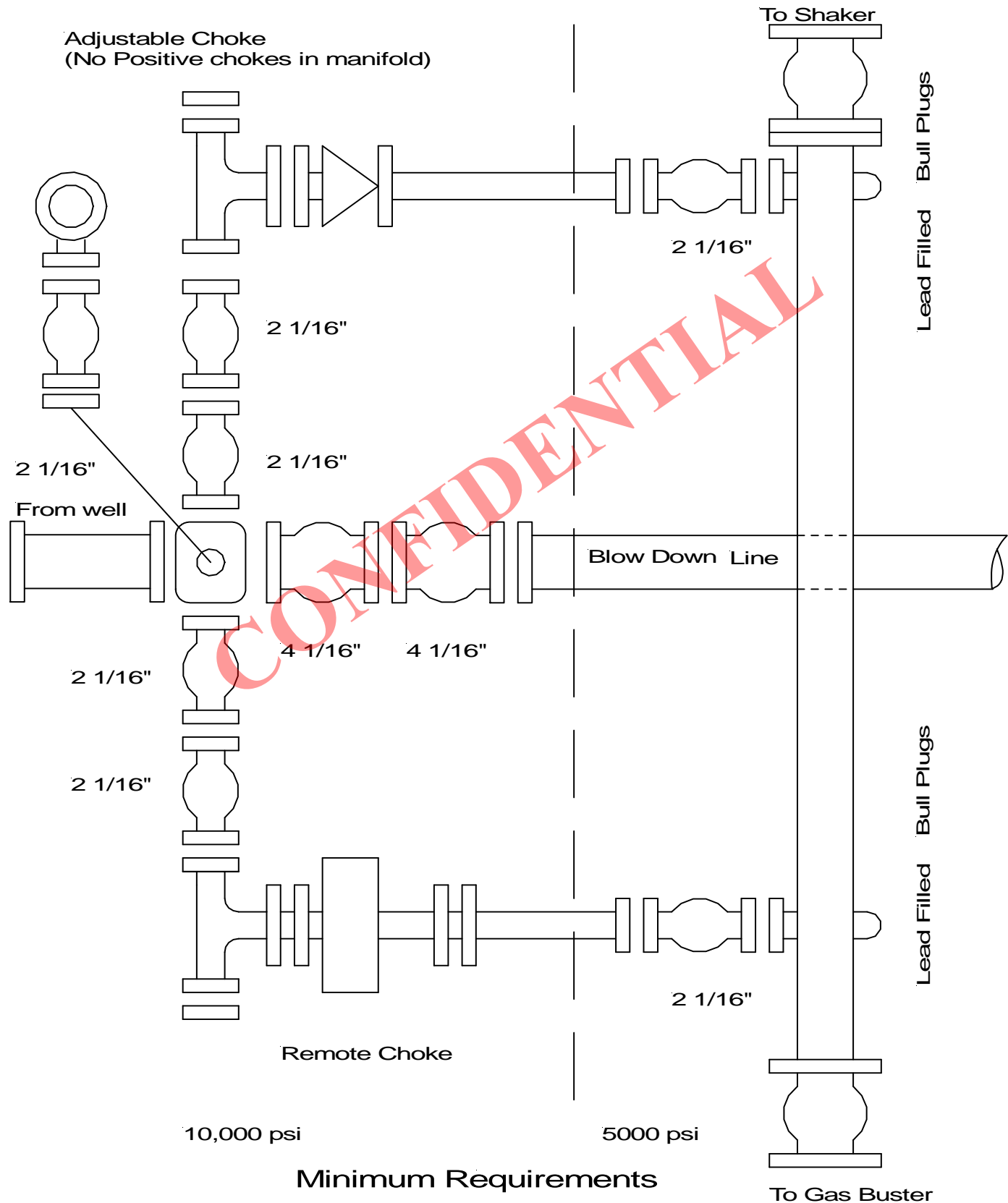
DRILLING PHASE
BOP Stack Diagram

River Bend Area Utah
DATE:
Rig:

NOTE: All lengths are in feet from RIG FLOOR.



10,000 psi Manifold




August 30, 2012

Gasco Production Company
Federal 321-29-9-19
1456' FNL & 1978' FEL
SWNE of Section 29-T9S-R19E
Uintah County, UT

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the well site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. The \$6,500 APD processing fee is being sent to the BLM Vernal Field office in conjunction with the electronic submittal of the APD package. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



Signature

Senior Operations Manager

Title

7979 East Tufts Avenue, Suite 1150 Denver, CO 80237

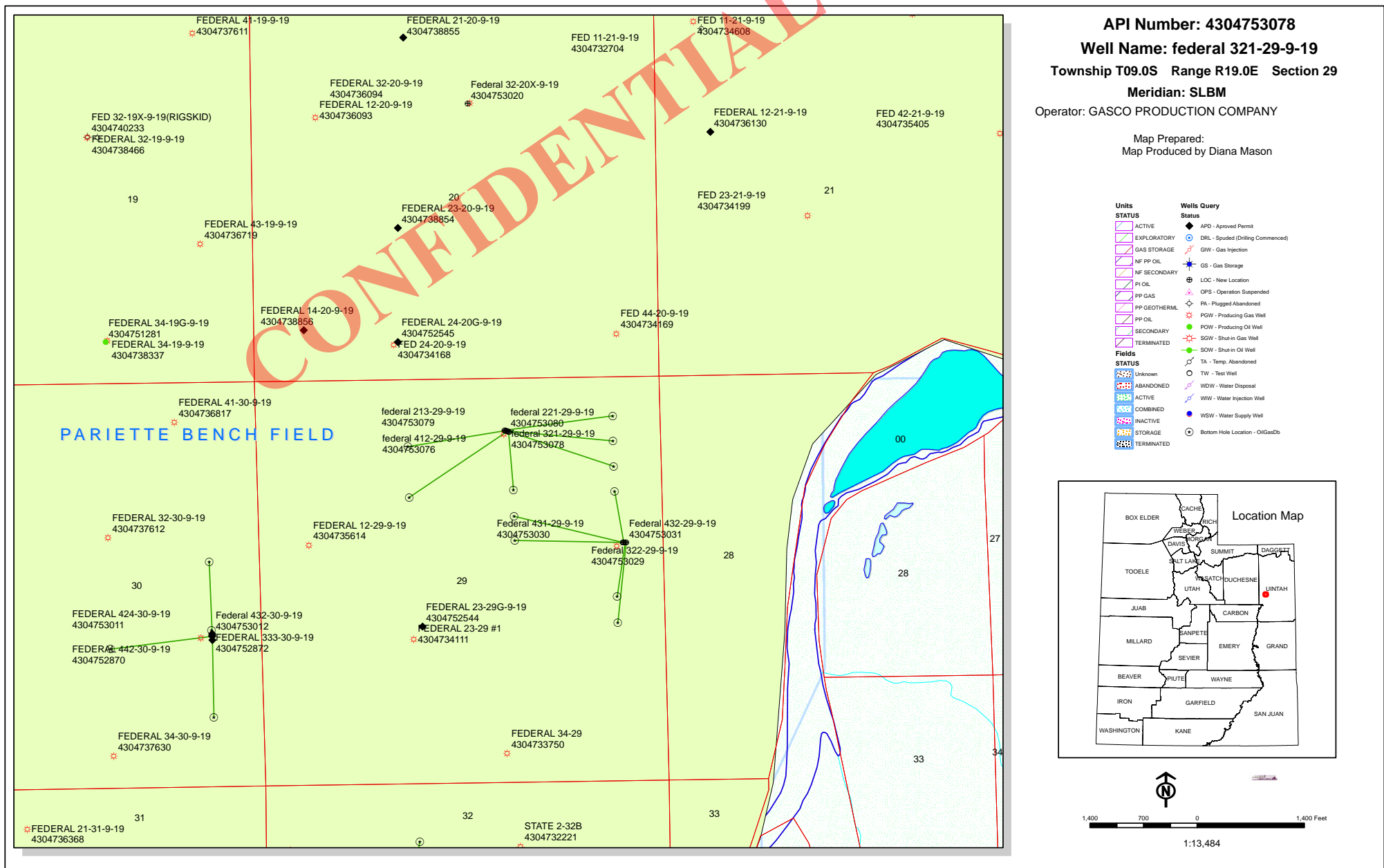
Address

303-483-0044

Phone

trogers@gascoenergy.com

E-mail



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/11/2012

API NO. ASSIGNED: 43047530780000

WELL NAME: federal 321-29-9-19

OPERATOR: GASCO PRODUCTION COMPANY (N2575)

PHONE NUMBER: 303 996-1803

CONTACT: Roger Knight

PROPOSED LOCATION: NWNE 29 090S 190E

Permit Tech Review: ☒

SURFACE: 0689 FNL 2020 FEL

Engineering Review: ☐

BOTTOM: 1456 FNL 1978 FEL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 40.00724

LONGITUDE: -109.80192

UTM SURF EASTINGS: 602259.00

NORTHINGS: 4429248.00

FIELD NAME: PARIETTE BENCH

LEASE TYPE: 1 - Federal

LEASE NUMBER: utu76034

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

LOCATION AND SITING:

☒ PLAT☐ R649-2-3.☒ Bond: FEDERAL - ut1233

Unit:

☐ Potash☐ R649-3-2. General☐ Oil Shale 190-5☐ R649-3-3. Exception☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Drilling Unit☒ Water Permit: 41-3530

Board Cause No: Cause 173-26

☐ RDCC Review:

Effective Date: 4/17/2012

☐ Fee Surface Agreement

Siting: 460' Fr Exterior Lease Boundary

☐ Intent to Commingle☒ R649-3-11. Directional Drill

Commingle Approved

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
15 - Directional - dmason

RECEIVED: September 18, 2012



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: federal 321-29-9-19

API Well Number: 43047530780000

Lease Number: utu76034

Surface Owner: FEDERAL

Approval Date: 9/18/2012

Issued to:

GASCO PRODUCTION COMPANY, 8 Inverness Dr. East, Suite 100, Englewood, CO 80112

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-26. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: utu76034
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 8 Inverness Dr. East, Suite 100, Englewood, CO, 80112		8. WELL NAME and NUMBER: federal 321-29-9-19
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0689 FNL 2020 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 29 Township: 09.0S Range: 19.0E Meridian: S		9. API NUMBER: 43047530780000
PHONE NUMBER: 303 996-1805 Ext		9. FIELD and POOL or WILDCAT: PARIETTE BENCH
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/18/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p style="color: red; margin: 0;"> Approved by the Utah Division of Oil, Gas and Mining </p> <p style="color: red; margin: 0;"> Date: September 18, 2013 </p> <p style="color: red; margin: 0;"> By: </p>		
NAME (PLEASE PRINT) Jessica Berg		PHONE NUMBER 303 996-1805
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 9/18/2013		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047530780000

API: 43047530780000

Well Name: federal 321-29-9-19

Location: 0689 FNL 2020 FEL QTR NWNE SEC 29 TWP 090S RNG 190E MER S

Company Permit Issued to: GASCO PRODUCTION COMPANY

Date Original Permit Issued: 9/18/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Jessica Berg

Date: 9/18/2013

Title: Regulatory Analyst Representing: GASCO PRODUCTION COMPANY

RECEIVED
JUL 28 2014
DIV. OF OIL, GAS & MININGUNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 20 2012

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

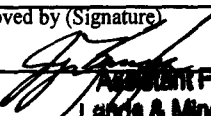
BLM
CONFIDENTIAL

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU76034
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator GASCO PRODUCTION COMPANYE-Mail: rknight@gascoenergy.com		7. If Unit or CA Agreement, Name and No.
3a. Address 7979 EAST TUFTS AVENUE SUITE 1150 DENVER, CO 80237		8. Lease Name and Well No. FEDERAL 321-29-9-19
3b. Phone No. (include area code) Ph: 303-996-1803		9. API Well No. 4304753078
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNE 689FNL 2020FEL At proposed prod. zone SWNE 1456FNL 1978FEL		10. Field and Pool, or Exploratory 8 MILE FLAT NORTH
14. Distance in miles and direction from nearest town or post office* 27 MILES SE OF MYTON UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 29 T9S R19E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 689		12. County or Parish UINTAH
16. No. of Acres in Lease 280.00		13. State UT
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1320		17. Spacing Unit dedicated to this well
19. Proposed Depth 11907 MD 11680 TVD		20. BLM/BIA Bond No. on file UT1233
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4817 GL		23. Estimated duration 25 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) ROGER KNIGHT Ph: 303-996-1803	Date 09/11/2012
Title AUTHORIZED REPRESENTATIVE		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUL 21 2014
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Electronic Submission #149729 verified by the BLM Well Information System
For GASCO PRODUCTION COMPANY, sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 09/25/2012 ()

NOTICE OF APPROVAL

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: GASCO PRODUCTION COMPANY
Well No: FEDERAL 321-29-9-19
API No: 43-047-53078

Location: NWNE, Sec. 29, T9S, R19E
Lease No: UTU-76034
Agreement:

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm ut vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Company/Operator: Gasco Production Company

Well Name & Numbers: Federal 212-29-9-19, Federal 213-29-9-19, Federal 221-19-9-19, **Federal 321-29-19**, Federal 412-29-9-19, Federal 413-29-9-19, Federal 414-29-9-19, Federal 322-29-9-19, Federal 323-29-9-19, Federal 421-29-9-19, Federal 431-29-9-19, Federal 432-29-9-19, Federal 333-30-9-19, Federal 424-30-9-19, Federal 432-30-9-19, and Federal 442-30-9-19

DOI-BLM-UT-G010-2013-132

Lease Number: UTU-037246, UTU-76034, and UTU-76262

Location: Sections 29 and 30, T7S, R20E

CONDITIONS OF APPROVAL:

- All reclamation activities will comply with the Green River Reclamation Guidelines
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled by the proponent throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use proposal (PUP) will be obtained for the project, by the proponent if applicable.
- A permitted paleontologist is to be present to monitor construction at the Federal 42-29-9-19 during all surface disturbing activities: examples include the following; building/or expansion of the well pad, access road, and pipelines.

This project involves drilling new wells on existing well pads, and includes 0.4 acres of disturbance from well pad expansion. Some areas that were previously disturbed will be redisturbed for this project.

Because of the close proximity of the existing wells to *Sclerocactus wetlandicus* individuals, the applicant has committed to the following measures

- Drilling on these well pads will be closed loop to limit the amount of re-disturbance and well pad expansion that will occur.
- The footprint of the well pads will be minimized as much as possible to minimize impacts to suitable Uinta Basin hookless cactus habitat. The BLM botanist will make recommendations for minimizing the footprint relative to Uinta Basin hookless cactus during the onsite. For example, on the 31-29-9-19 location, corner #2 will be moved to the edge of existing disturbance.
- A BLM-approved botanist will be on site during any construction and drilling operations to make sure activities do not impact plants. The BLM-approved botanist will install silt fencing at the edge of the proposed disturbance to prevent impacts to *Sclerocactus wetlandicus* individuals and will remove them at the end of construction.
- Any construction work associated with this proposed project will happen outside of flowering season (usually April through May) as determined by a BLM-approved botanist.
- Any backfill/spoils/topsoils will be stockpiled as far away from existing plants as possible (for example, on the side of the well pad that is furthest from existing plants).
- Water only (no chemicals, reclaimed production water, or oil field brine) will be used for project-related dust abatement from March through August, when *Sclerocactus* species are most vulnerable to dust-related impacts.
- Where the pipeline is within 50 feet of individual *Sclerocactus* plants or populations, the pipeline will either be hand-laid or laid by vehicles from the existing road and secured in place to prevent movement toward plants.
- After construction is completed, the BLM-approved botanist will provide a report to the BLM summarizing the methods and results of the avoidance measures.
- *Sclerocactus* spot checks will be conducted and approved for all planned disturbance areas on an annual basis the year following the 100% *Sclerocactus* clearance survey for this project. Results of spot checks may require additional pre-construction plant surveys as directed by the BLM and in coordination with the USFWS. If the proposed action or parts thereof have not occurred within four years of the original survey, coordination with the USFWS will be required and 100% clearance re-survey may be necessary prior to ground disturbing activities.
- Additional mitigation for project impacts in lieu of the 3-year *Sclerocactus* monitoring requirement (for plants within 300 feet of disturbance) may include contribution to the *Sclerocactus* mitigation fund, with the amount determined during section 7 consultation with the USFWS. This monetary amount must be paid by Gasco to the *Sclerocactus* Mitigation Fund-BLM within 90 days upon receipt of concurrence, or before construction of the Project begins. The payment should be made to; *Sclerocactus* Mitigation Fund-BLM, Michelle Olson, Manager, Impact-Directed Environmental Accounts, National Fish and Wildlife Foundation, 1133 Fifteenth Street NW, Suite 1100, Washington, DC 20005.
- Gasco Agrees to identify well pads for participation restoration and reclamation work with BLM, USFWS and researchers from Utah State University.
- In order to mitigate for disturbance within Core Conservation Area Level 2 and to cactus within 300 feet of surface disturbances, Gasco Production Company will contribute \$5,400.00 to the *Sclerocactus* mitigation fund to aid in the recovery of the species.
 - *Sclerocactus* Mitigation Fund-BLM, Michelle Olson, Manager, Impact-Directed Environmental Accounts, National Fish and Wildlife Foundation, 1133 Fifteenth Street NW, Suite 1100, Washington, DC 20005

The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved

location is best.

- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
 - do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
 - limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
 - limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
 - screen all pump intakes with 3/32 inch mesh material.
 - approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

Northeastern Region
318 North Vernal Ave, Vernal, UT 84078
Phone: (435) 781-9453

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

Apd_Coa Downhole_GasC

- For the drilling of the surface hole section, operator is required to install a bowl diverter system which is connected and discharges to an panic or choke blooie line. The surface hole section of the subject well is deeper then 2,00 ft.
- Electronic/mechanical mud monitoring equipment shall include from surface casing shoe to TD a: pit volume totalizer (PVT); stroke counter, and flow sensor.
- The operator proposed surface casing of 8,625" 28.0#J-55 LT&C (straight string) does "not" meet the regulatory standards for a burst design coefficieant greater then 1.000.

Operator's surface casing is to be upgraded in weight.

- BOPE requirement for drilling production casing segment of wellbore is for BOP 10m systems.

The operator is required to use "10,000 psi annular preventer for the specified BOP 10m system.

- 10M BOPE shall meet all requirement of Onshore Order #2, including an Upper and Lower kelly cock valve described an; Upper kelly ccok valve with handle available; and lower kelly cock valve with handle available.
- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 75 feet.

All requirements will be adhered to corverin air/gas drilling ooperations as described in Onshore Order #2 III. E.

- Drilling Operations, Special Drilling Operations, air/gas drilling.

**Applicable Wells:
_GasC**

Existing_Well: (31-29-9-19

#7 wells (31-29-9-19): 212-29-9-19 213-29-9-19 221-29-9-19 321-29-9-19 421-29-9-19 413-29-9-19 414-29-9-19

UTU-76034

212-29-9-19	43-47-53133
213-29-9-9-19	43-047-53079
221-29-9-19	43-047-53080
321-29-9-19	43-047-53078
412-29-9-19	43-047-53076
413-29-9-19	43-047-53073
414-29-9-19	43-047-53070

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

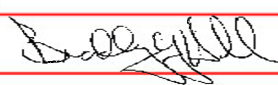
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: utu76034
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 8 Inverness Dr. East, Suite 100, Englewood, CO, 80112		8. WELL NAME and NUMBER: federal 321-29-9-19
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0689 FNL 2020 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 29 Township: 09.0S Range: 19.0E Meridian: S		9. API NUMBER: 43047530780000
PHONE NUMBER: 303 996-1805 Ext		9. FIELD and POOL or WILDCAT: PARIETTE BENCH
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/1/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p style="color: red; font-weight: bold;">Approved by the September 23, 2014 Oil, Gas and Mining</p> <p style="color: red; font-weight: bold;">Date: _____</p> <p style="color: red; font-weight: bold;">By: <u></u></p>		
NAME (PLEASE PRINT) Jessica Berg		PHONE NUMBER 303 996-1805
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 9/18/2014		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047530780000

API: 43047530780000

Well Name: federal 321-29-9-19

Location: 0689 FNL 2020 FEL QTR NWNE SEC 29 TWP 090S RNG 190E MER S

Company Permit Issued to: GASCO PRODUCTION COMPANY

Date Original Permit Issued: 9/18/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Jessica Berg

Date: 9/18/2014

Title: Regulatory Analyst Representing: GASCO PRODUCTION COMPANY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: utu76034			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: 8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112		8. WELL NAME and NUMBER: federal 321-29-9-19			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0689 FNL 2020 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 29 Township: 09.0S Range: 19.0E Meridian: S		9. API NUMBER: 43047530780000			
PHONE NUMBER: 303 996-1805 Ext		9. FIELD and POOL or WILDCAT: PARIETTE BENCH			
COUNTY: UINTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/18/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input checked="" type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Change to APD"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input checked="" type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Change to APD"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input checked="" type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Change to APD"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Gasco is requesting approval for a bottom hole location change to 822 FNL & 658 FEL, a name change to the Federal 413-29-9-19, a revised directional plan and a revised drilling plan with changes to the BOP and casing program on this well. Please see attachment for specifics.					
Approved by the September 23, 2014 Oil, Gas and Mining Date: _____ By:					
NAME (PLEASE PRINT) Jessica Berg	PHONE NUMBER 303 996-1805	TITLE Regulatory Analyst			
SIGNATURE N/A	DATE 9/18/2014				

NWNE of Section 29-T9S-R19E Pad, Uintah County, UT
Revised Drilling program – casing and BOP Revisions
Bottom Hole Location and name changes including the following wells:

Federal 212-29-9-19

Federal 213-29-9-19

Federal 221-29-9-19

Federal 321-29-9-19

Federal 412-29-9-19

Federal 413-29-9-19

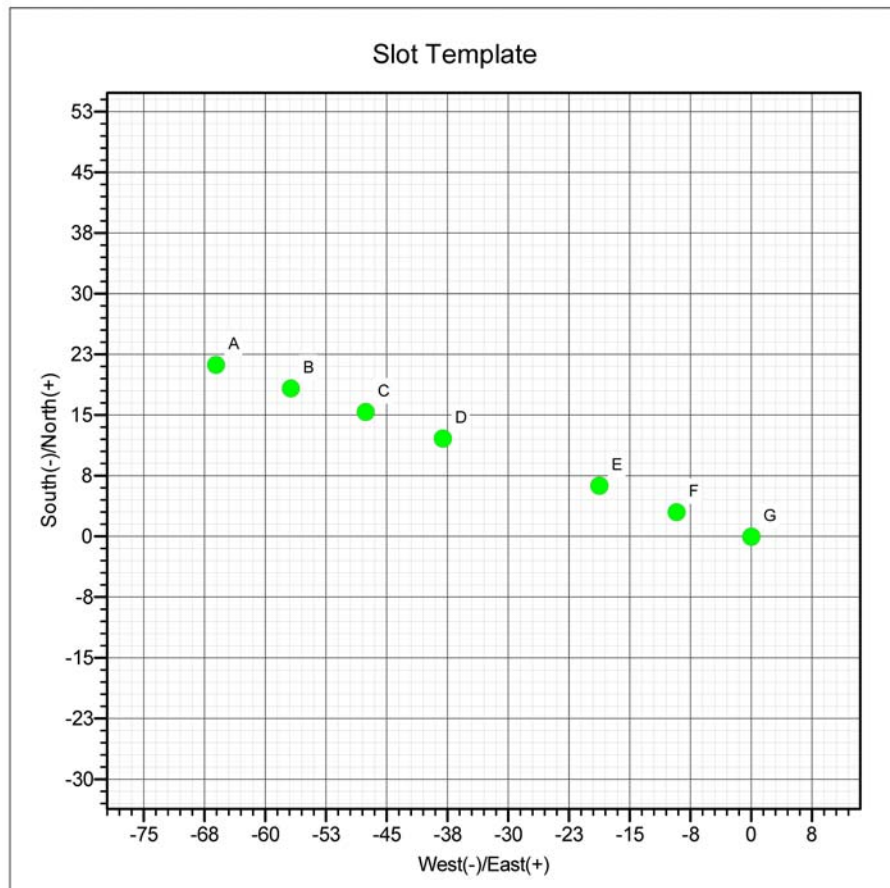
Federal 414-29-9-19

Gasco is requesting approval to change the coordinating surface hole locations and bottom hole locations as summarized in the attached table. All surface hole locations will stay the same, associated with their original API number. Two APIs will keep the same name and bottom location, the other five APIs will change the well name and the bottom hole location it will be drilled to.

The same seven Bottom hole location's originally permitted will be used, but will be reassigned to the Surface hole location that will prevent wellbore collisions with the existing well on the pad.

In addition to Bottom hole location and name changes, attached is a revised location layout with the new names associated with the correct surface hole, an updated plat for each location, updated directional plans and an updated drilling plan.

Gasco also requests approval for revisions to the permitted drilling plan including casing program changes and a change to a 5M BOP configuration (diagram attached).



Pad in NWNE of Sec 29-9-19				(Names & BHL's) As-Permitted			(Names & BHL's) Proposed Changes		
SHL	SHL Footages		API	Well Name	BHL Footages		Well Name	BHL Footages	
	FNL/FSL	FEL/FWL			FNL/FSL	FEL/FWL		FNL/FSL	FEL/FWL
A	670 FNL	2077 FEL	4304753133	Federal 212-29-9-19	549 FNL	1979 FWL	No Change		
B	673 FNL	2068 FEL	4304753076	Federal 412-29-9-19	493 FNL	653 FEL	Federal 213-29-9-19	879 FNL	1978 FWL
C	677 FNL	2058 FEL	4304753079	Federal 213-29-9-19	879 FNL	1978 FWL	Federal 221-29-9-19	1540 FNL	1976 FWL
D	680 FNL	2048 FEL	4304753073	Federal 413-29-9-19	822 FNL	658 FEL	Federal 412-29-9-19	493 FNL	653 FEL
E	686 FNL	2029 FEL	4304753080	Federal 221-29-9-19	1540 FNL	1976 FWL	Federal 321-29-9-19	1456 FNL	1978 FEL
F	689 FNL	2020 FEL	4304753078	Federal 321-29-9-19	1456 FNL	1978 FEL	Federal 413-29-9-19	822 FNL	658 FEL
G	692 FNL	2010 FEL	4304753070	Federal 414-29-9-19	1152 FNL	657 FEL	No Change		

T9S, R19E, S.L.B.&M.**GASCO PRODUCTION COMPANY**

Well location, FEDERAL #413-29-9-19, located as shown in the NW 1/4 NE 1/4 of Section 29, T9S, R19E, S.L.B.&M., Uintah County, Utah





BASIS OF ELEVATION

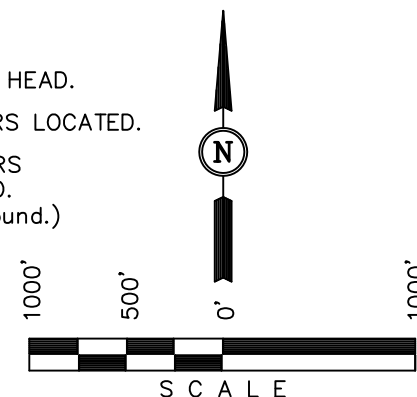
SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 14, T10S, R18E, S.L.B.&M., TAKEN FROM THE MOON BOTTOM QUADRANGLE, UTAH, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5129 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LEGEND:

-  = 90° SYMBOL
 = PROPOSED WELL HEAD.
 = SECTION CORNERS LOCATED.
 = SECTION CORNERS RE-ESTABLISHED.
 (Not Set on Ground.)

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

REVISED: 06-18-12
 REVISED: 06-06-12
 REVISED: 06-01-12
 REVISED: 04-12-12

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 03-09-12	DATE DRAWN: 03-19-12
PARTY J.F. B.S. T.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE GASCO PRODUCTION COMPANY	

N 1/4 COR. SEC. 31
 1910 Brass Cap
 2.0' High, Pile
 Of Stones

Section Corner
 Re-Established Using
 Double Proportion
 Method

1910 Brass Cap
 1.0' High, Pile
 Of Stones

1910 Brass Cap
 1.0' High, Pile
 Of Stones

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°00'24.72" (40.006867)	LATITUDE = 40°00'26.04" (40.007233)
LONGITUDE = 109°47'50.12" (109.797256)	LONGITUDE = 109°48'07.62" (109.802117)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°00'24.85" (40.006903)	LATITUDE = 40°00'26.17" (40.007269)
LONGITUDE = 109°47'47.61" (109.796558)	LONGITUDE = 109°48'05.11" (109.801419)

W 1/4 COR. SEC. 32
 Brass Cap

RECEIVED: Sep. 18, 2014



Company: Gasco Energy
 Project: Uintah County, UT NAD27
 Site: Federal 29-9S-19E
 Well: Federal #413-29-9-19

Well Details: Federal #413-29-9-19

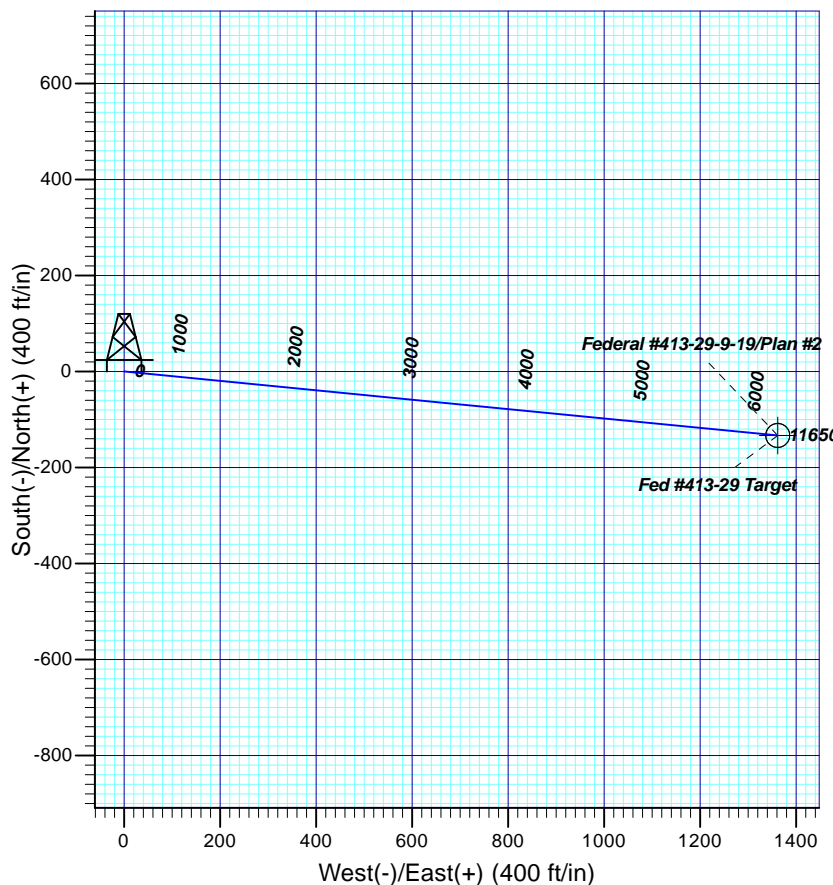
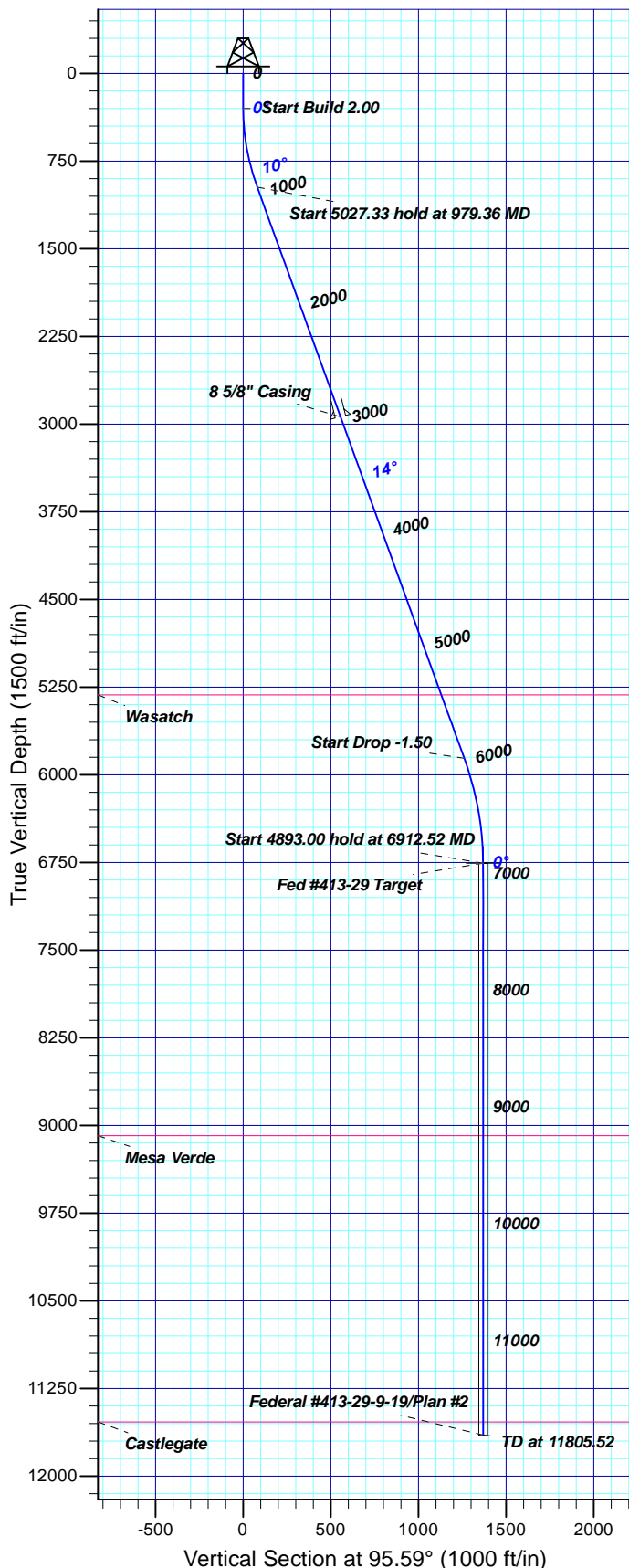
GL 4817' & RKB 25' @ 4842.00ft (SST 54)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	614210.60	2475767.01	40° 0' 26.168 N	109° 48' 5.108 W	F



Azimuths to True North
 Magnetic North: 10.92°

Magnetic Field
 Strength: 51868.2snT
 Dip Angle: 65.73°
 Date: 8/12/2014
 Model: BGGM2014



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
5317.00	5448.42	Wasatch
9087.00	9242.52	Mesa Verde
11537.00	11692.52	Castlegate

Plan: Plan #2

16:30, August 28 2014
 Created By: Janie Collins

PROJECT DETAILS: Uintah County, UT NAD27

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Utah Central 4302

System Datum: Mean Sea Level

CASING DETAILS

TVD	MD	Name	Size
2937.10	3000.00	8 5/8" Casing	8.625

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	979.36	13.59	95.59	973.01	-7.81	79.80	2.00	95.59	80.18	
4	6006.70	13.59	95.59	5859.65	-122.83	1255.23	0.00	0.001261.23		
5	6912.52	0.00	0.00	6757.00	-133.24	1361.63	1.50	180.001368.13		Fed #413-29 Target
6	11805.52	0.00	0.00	11650.00	-133.24	1361.63	0.00	0.001368.13		

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Fed #413-29 Target	6757.00	-133.24	1361.63	614103.24	2477130.92	40° 0' 24.85109° 47' 47.609 W		Circle (Radius: 25.00)

- plan hits target center

Gasco Energy

Uintah County, UT NAD27

Federal 29-9S-19E

Federal #413-29-9-19 - Slot F

OH

Plan: Plan #2

Standard Planning Report

28 August, 2014



www.scientificdrilling.com



Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well Federal #413-29-9-19 - Slot F
Company:	Gasco Energy	TVD Reference:	GL 4817' & RKB 25' @ 4842.00ft (SST 54)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4817' & RKB 25' @ 4842.00ft (SST 54)
Site:	Federal 29-9S-19E	North Reference:	True
Well:	Federal #413-29-9-19	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project	Uintah County, UT NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site		Federal 29-9S-19E			
Site Position:		Northing:	614,210.58 usft	Latitude:	40° 0' 26.168 N
From:	Lat/Long	Easting:	2,475,767.04 usft	Longitude:	109° 48' 5.108 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.09

Well	Federal #413-29-9-19 - Slot F					
Well Position	+N/-S	0.03 ft	Northing:	614,210.60 usft	Latitude:	40° 0' 26.168 N
	+E/-W	-0.03 ft	Easting:	2,475,767.01 usft	Longitude:	109° 48' 5.108 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,817.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	8/12/2014	10.92	65.73	51,868

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	95.59

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
979.36	13.59	95.59	973.01	-7.81	79.80	2.00	2.00	0.00	95.59	
6,006.70	13.59	95.59	5,859.65	-122.83	1,255.23	0.00	0.00	0.00	0.00	
6,912.52	0.00	0.00	6,757.00	-133.24	1,361.63	1.50	-1.50	0.00	180.00	Fed #413-29 Target
11,805.52	0.00	0.00	11,650.00	-133.24	1,361.63	0.00	0.00	0.00	0.00	

Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well Federal #413-29-9-19 - Slot F
Company:	Gasco Energy	TVD Reference:	GL 4817' & RKB 25' @ 4842.00ft (SST 54)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4817' & RKB 25' @ 4842.00ft (SST 54)
Site:	Federal 29-9S-19E	North Reference:	True
Well:	Federal #413-29-9-19	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	95.59	399.98	-0.17	1.74	1.75	2.00	2.00	0.00
500.00	4.00	95.59	499.84	-0.68	6.95	6.98	2.00	2.00	0.00
600.00	6.00	95.59	599.45	-1.53	15.62	15.69	2.00	2.00	0.00
700.00	8.00	95.59	698.70	-2.72	27.75	27.88	2.00	2.00	0.00
800.00	10.00	95.59	797.47	-4.24	43.32	43.52	2.00	2.00	0.00
900.00	12.00	95.59	895.62	-6.10	62.30	62.60	2.00	2.00	0.00
979.36	13.59	95.59	973.01	-7.81	79.80	80.18	2.00	2.00	0.00
Start 5027.33 hold at 979.36 MD									
1,000.00	13.59	95.59	993.07	-8.28	84.62	85.02	0.00	0.00	0.00
1,100.00	13.59	95.59	1,090.27	-10.57	108.00	108.52	0.00	0.00	0.00
1,200.00	13.59	95.59	1,187.48	-12.86	131.38	132.01	0.00	0.00	0.00
1,300.00	13.59	95.59	1,284.68	-15.14	154.76	155.50	0.00	0.00	0.00
1,400.00	13.59	95.59	1,381.88	-17.43	178.14	178.99	0.00	0.00	0.00
1,500.00	13.59	95.59	1,479.08	-19.72	201.52	202.49	0.00	0.00	0.00
1,600.00	13.59	95.59	1,576.28	-22.01	224.91	225.98	0.00	0.00	0.00
1,700.00	13.59	95.59	1,673.48	-24.30	248.29	249.47	0.00	0.00	0.00
1,800.00	13.59	95.59	1,770.68	-26.58	271.67	272.97	0.00	0.00	0.00
1,900.00	13.59	95.59	1,867.88	-28.87	295.05	296.46	0.00	0.00	0.00
2,000.00	13.59	95.59	1,965.09	-31.16	318.43	319.95	0.00	0.00	0.00
2,100.00	13.59	95.59	2,062.29	-33.45	341.81	343.44	0.00	0.00	0.00
2,200.00	13.59	95.59	2,159.49	-35.74	365.19	366.94	0.00	0.00	0.00
2,300.00	13.59	95.59	2,256.69	-38.02	388.57	390.43	0.00	0.00	0.00
2,400.00	13.59	95.59	2,353.89	-40.31	411.95	413.92	0.00	0.00	0.00
2,500.00	13.59	95.59	2,451.09	-42.60	435.33	437.41	0.00	0.00	0.00
2,600.00	13.59	95.59	2,548.29	-44.89	458.72	460.91	0.00	0.00	0.00
2,700.00	13.59	95.59	2,645.50	-47.18	482.10	484.40	0.00	0.00	0.00
2,800.00	13.59	95.59	2,742.70	-49.46	505.48	507.89	0.00	0.00	0.00
2,900.00	13.59	95.59	2,839.90	-51.75	528.86	531.38	0.00	0.00	0.00
3,000.00	13.59	95.59	2,937.10	-54.04	552.24	554.88	0.00	0.00	0.00
8 5/8" Casing									
3,100.00	13.59	95.59	3,034.30	-56.33	575.62	578.37	0.00	0.00	0.00
3,200.00	13.59	95.59	3,131.50	-58.62	599.00	601.86	0.00	0.00	0.00
3,300.00	13.59	95.59	3,228.70	-60.90	622.38	625.36	0.00	0.00	0.00
3,400.00	13.59	95.59	3,325.90	-63.19	645.76	648.85	0.00	0.00	0.00
3,500.00	13.59	95.59	3,423.11	-65.48	669.14	672.34	0.00	0.00	0.00
3,600.00	13.59	95.59	3,520.31	-67.77	692.53	695.83	0.00	0.00	0.00
3,700.00	13.59	95.59	3,617.51	-70.06	715.91	719.33	0.00	0.00	0.00
3,800.00	13.59	95.59	3,714.71	-72.34	739.29	742.82	0.00	0.00	0.00
3,900.00	13.59	95.59	3,811.91	-74.63	762.67	766.31	0.00	0.00	0.00
4,000.00	13.59	95.59	3,909.11	-76.92	786.05	789.80	0.00	0.00	0.00
4,100.00	13.59	95.59	4,006.31	-79.21	809.43	813.30	0.00	0.00	0.00
4,200.00	13.59	95.59	4,103.51	-81.50	832.81	836.79	0.00	0.00	0.00
4,300.00	13.59	95.59	4,200.72	-83.78	856.19	860.28	0.00	0.00	0.00
4,400.00	13.59	95.59	4,297.92	-86.07	879.57	883.77	0.00	0.00	0.00
4,500.00	13.59	95.59	4,395.12	-88.36	902.95	907.27	0.00	0.00	0.00
4,600.00	13.59	95.59	4,492.32	-90.65	926.33	930.76	0.00	0.00	0.00
4,700.00	13.59	95.59	4,589.52	-92.94	949.72	954.25	0.00	0.00	0.00
4,800.00	13.59	95.59	4,686.72	-95.22	973.10	977.74	0.00	0.00	0.00

Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well Federal #413-29-9-19 - Slot F
Company:	Gasco Energy	TVD Reference:	GL 4817' & RKB 25' @ 4842.00ft (SST 54)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4817' & RKB 25' @ 4842.00ft (SST 54)
Site:	Federal 29-9S-19E	North Reference:	True
Well:	Federal #413-29-9-19	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,900.00	13.59	95.59	4,783.92	-97.51	996.48	1,001.24	0.00	0.00	0.00
5,000.00	13.59	95.59	4,881.13	-99.80	1,019.86	1,024.73	0.00	0.00	0.00
5,100.00	13.59	95.59	4,978.33	-102.09	1,043.24	1,048.22	0.00	0.00	0.00
5,200.00	13.59	95.59	5,075.53	-104.38	1,066.62	1,071.72	0.00	0.00	0.00
5,300.00	13.59	95.59	5,172.73	-106.66	1,090.00	1,095.21	0.00	0.00	0.00
5,400.00	13.59	95.59	5,269.93	-108.95	1,113.38	1,118.70	0.00	0.00	0.00
5,448.42	13.59	95.59	5,317.00	-110.06	1,124.70	1,130.08	0.00	0.00	0.00
Wasatch									
5,500.00	13.59	95.59	5,367.13	-111.24	1,136.76	1,142.19	0.00	0.00	0.00
5,600.00	13.59	95.59	5,464.33	-113.53	1,160.14	1,165.69	0.00	0.00	0.00
5,700.00	13.59	95.59	5,561.53	-115.82	1,183.53	1,189.18	0.00	0.00	0.00
5,800.00	13.59	95.59	5,658.74	-118.10	1,206.91	1,212.67	0.00	0.00	0.00
5,900.00	13.59	95.59	5,755.94	-120.39	1,230.29	1,236.16	0.00	0.00	0.00
6,000.00	13.59	95.59	5,853.14	-122.68	1,253.67	1,259.66	0.00	0.00	0.00
6,006.70	13.59	95.59	5,859.65	-122.83	1,255.23	1,261.23	0.00	0.00	0.00
Start Drop -1.50									
6,100.00	12.19	95.59	5,950.60	-124.86	1,275.94	1,282.04	1.50	-1.50	0.00
6,200.00	10.69	95.59	6,048.61	-126.79	1,295.68	1,301.87	1.50	-1.50	0.00
6,300.00	9.19	95.59	6,147.11	-128.47	1,312.86	1,319.13	1.50	-1.50	0.00
6,400.00	7.69	95.59	6,246.02	-129.90	1,327.46	1,333.80	1.50	-1.50	0.00
6,500.00	6.19	95.59	6,345.29	-131.08	1,339.48	1,345.88	1.50	-1.50	0.00
6,600.00	4.69	95.59	6,444.83	-132.00	1,348.91	1,355.35	1.50	-1.50	0.00
6,700.00	3.19	95.59	6,544.59	-132.67	1,355.75	1,362.22	1.50	-1.50	0.00
6,800.00	1.69	95.59	6,644.50	-133.08	1,359.98	1,366.47	1.50	-1.50	0.00
6,900.00	0.19	95.59	6,744.49	-133.24	1,361.61	1,368.11	1.50	-1.50	0.00
6,912.52	0.00	0.00	6,757.00	-133.24	1,361.63	1,368.13	1.50	-1.50	-763.79
Start 4893.00 hold at 6912.52 MD - Fed #413-29 Target									
7,000.00	0.00	0.00	6,844.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
7,100.00	0.00	0.00	6,944.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
7,200.00	0.00	0.00	7,044.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
7,300.00	0.00	0.00	7,144.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
7,400.00	0.00	0.00	7,244.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
7,500.00	0.00	0.00	7,344.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
7,600.00	0.00	0.00	7,444.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
7,700.00	0.00	0.00	7,544.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
7,800.00	0.00	0.00	7,644.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
7,900.00	0.00	0.00	7,744.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
8,000.00	0.00	0.00	7,844.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
8,100.00	0.00	0.00	7,944.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
8,200.00	0.00	0.00	8,044.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
8,300.00	0.00	0.00	8,144.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
8,400.00	0.00	0.00	8,244.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
8,500.00	0.00	0.00	8,344.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
8,600.00	0.00	0.00	8,444.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
8,700.00	0.00	0.00	8,544.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
8,800.00	0.00	0.00	8,644.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
8,900.00	0.00	0.00	8,744.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
9,000.00	0.00	0.00	8,844.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
9,100.00	0.00	0.00	8,944.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
9,200.00	0.00	0.00	9,044.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
9,242.52	0.00	0.00	9,087.00	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
Mesa Verde									
9,300.00	0.00	0.00	9,144.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
9,400.00	0.00	0.00	9,244.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00

Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well Federal #413-29-9-19 - Slot F
Company:	Gasco Energy	TVD Reference:	GL 4817' & RKB 25' @ 4842.00ft (SST 54)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4817' & RKB 25' @ 4842.00ft (SST 54)
Site:	Federal 29-9S-19E	North Reference:	True
Well:	Federal #413-29-9-19	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,500.00	0.00	0.00	9,344.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
9,600.00	0.00	0.00	9,444.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
9,700.00	0.00	0.00	9,544.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
9,800.00	0.00	0.00	9,644.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
9,900.00	0.00	0.00	9,744.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
10,000.00	0.00	0.00	9,844.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
10,100.00	0.00	0.00	9,944.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
10,200.00	0.00	0.00	10,044.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
10,300.00	0.00	0.00	10,144.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
10,400.00	0.00	0.00	10,244.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
10,500.00	0.00	0.00	10,344.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
10,600.00	0.00	0.00	10,444.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
10,700.00	0.00	0.00	10,544.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
10,800.00	0.00	0.00	10,644.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
10,900.00	0.00	0.00	10,744.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
11,000.00	0.00	0.00	10,844.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
11,100.00	0.00	0.00	10,944.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
11,200.00	0.00	0.00	11,044.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
11,300.00	0.00	0.00	11,144.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
11,400.00	0.00	0.00	11,244.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
11,500.00	0.00	0.00	11,344.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
11,600.00	0.00	0.00	11,444.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
11,692.52	0.00	0.00	11,537.00	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
Castlegate									
11,700.00	0.00	0.00	11,544.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
11,800.00	0.00	0.00	11,644.49	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
11,805.52	0.00	0.00	11,650.00	-133.24	1,361.63	1,368.13	0.00	0.00	0.00
TD at 11805.52									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Fed #413-29 Target - plan hits target center - Circle (radius 25.00)	0.00	0.00	6,757.00	-133.24	1,361.63	614,103.24	2,477,130.91	40° 0' 24.851 N	109° 47' 47.609 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
3,000.00	2,937.10	8 5/8" Casing	8.625	11.000	

Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well Federal #413-29-9-19 - Slot F
Company:	Gasco Energy	TVD Reference:	GL 4817' & RKB 25' @ 4842.00ft (SST 54)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4817' & RKB 25' @ 4842.00ft (SST 54)
Site:	Federal 29-9S-19E	North Reference:	True
Well:	Federal #413-29-9-19	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,448.42	5,317.00	Wasatch		0.00	
9,242.52	9,087.00	Mesa Verde		0.00	
11,692.52	11,537.00	Castlegate		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
979.36	973.01	-7.81	79.80	Start 5027.33 hold at 979.36 MD	
6,006.70	5,859.65	-122.83	1,255.23	Start Drop -1.50	
6,912.52	6,757.00	-133.24	1,361.63	Start 4893.00 hold at 6912.52 MD	
11,805.52	11,650.00	-133.24	1,361.63	TD at 11805.52	

Gasco Production Company
Federal 413-29-9-19
NWNE, Section 29, Township 9 South, Range 19 East
Uintah County, Utah
Lease No. UTU- 76034

ONSHORE OIL & GAS ORDER NO. 1

Drilling Program

1. Estimated Tops of Important Geological Markers

Formation	Depth	Subsea
Green River	surface	surface
Wasatch	5317'	-500'
Mesaverde	9087'	-4270'
Castlegate	11537'	-6720'
TVD	11650'	

2. Estimated Depth of Anticipated Water, Oil, Gas or Mineral Formations

Substance	Formation	Depth
Gas	Mesaverde	9087' - 11537'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment

All well control equipment will be in accordance to Onshore Order No. 2 for 5M Systems and are as follows:

5,000# BOP with 4 ½" Pipe Rams
5,000# BOP with Blind Rams
5,000# Annular

Ram type preventers and associated equipment shall be tested to the approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline on pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Pressure Control Equipment Continued

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more that once a day.

A BPOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

BOP systems shall be consistent with API RP 53 Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling cement plugs.

The District Office will be notified, with sufficient lead time, in order to have a BLM representative on location during testing.

- a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not yet been chosen to drill this well, most of the equipment for this depth will utilize 5M working BOP.
- b. A choke line and kill line are to be properly installed. The kill line is not to be used as a fill-up line.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

Special Drilling Operations to be followed by Gasco Production Company during operations air/gas drilling of Surface Hole

The following equipment will be operational and implemented during any air/gas drilling operations for the surface hole as per Onshore Order 2 III. E. 1.:

- Properly lubricated and maintained rotating head
- Spark Arresters on engines or water cooled exhaust
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run on blooie line unless other wised approved

Deduster equipment

All cuttings and circulating medium shall be directed into a reserve or blooie pit

Float valve above bit

Automatic igniter or continuous pilot light on the blooie line

Compressors located in opposite direction from the blooie line a minimum of 100 feet from the well bore

Variances Requested:

Variance for Requirement BOPE

Properly lubricated and maintained rotating head and air bowl diverter system.

Variance for Requirement Mud Material

Mud circulating equipment, water and mud materials sufficient to maintain the capacity of the hole and circulating tanks or pits. Skid pump shall be available to pump water from an auxiliary water source such as reserve pit or water storage tank for well control purposes.

Variance for Requirement Blooie Line Length

Requirement for blooie line discharge of 100 feet from well. Blooie line discharge distance between well and reserve pit is 60 feet.

4. Proposed Casing and Cementing Program

a. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones abnormally pressured zones and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors including: presence/absence of hydrocarbons, fracture gradients, usable water zones, formation pressures, lost circulation zones, other minerals, or other unusual characteristics. All indications of usable water shall be reported.

b. Casing Program

	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Grade</u>	<u>Type</u>
Conductor	100'	20"	16"	H-40 #48	STC
Surface	3000'	11"	8 5/8"	J-55 #32	LTC
Production	11,806'	7 7/8"	4 1/2"	HCP-110#13.5	LTC

c. Casing design subject to revision based on geologic conditions encountered.

d. Cement Program

	<u>Est. Top of Cement</u>	<u>Sacks/Cement Type</u>	<u>Yield</u>	<u>Supply Wt.</u>	
Conductor	surface	110/ POZ /Ready Mix	1.31	14.3	
Surface	surface	415/ Premium Lite II	3.21	11.0	Lead
		175/ Class G	1.17	15.8	Tail
Production	surface	540/ Premium Lite II	2.26	12.0	Lead
		1320/ 50/50 POZ	1.31	14.3	Tail

- e. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.
- f. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.
- g. The following reports shall be filed with the District Manager within 30 days after the work is completed.

1. Progress reports, form 3160-5 "Sundry Notices and Reports on Wells", must Include complete information concerning:

- a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
- b. Temperature or bond log must be submitted for each well where the casing cement was not circulated to the surface.

h. Auxiliary equipment to be used is as follows:

- 1. Kelly cock
- 2. A bit float
- 3. A sub with full opening valve.

5. Drilling Fluids Program:

<u>Interval</u>	<u>Type</u>	<u>Wt. (ppg)</u>	<u>Viscosity</u>	<u>pH</u>	<u>Water Loss</u>
0-100'	Water Based Mud	8.33	NA	NA	NA
100'-3000'	Water Based Mud	9.0	35	NA	NA
3000'-TD	Water Based Mud	8.3 – 11.8		10-10.5	NA

- a. Sufficient quantities of mud material will be maintained on site or be readily available for the purpose of assuring well control. SPR will be recorded on a daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.
- b. No chromate additives will be used in the mud system on Federal lands without prior BLM approval to ensure adequate protection of fresh water aquifers.
- c. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well.
- d. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.
- e. Water will come from: Recycled, treated production water and Water Right No. 41-3530.
- f. Water will be hauled by commercial transport over the access roads shown on Attached Maps "A" and "B".
- g. No water well will be drilled on this lease

6. Evaluation Program

The anticipated type and amount of testing, logging and coring are as follows:

a. No drill stem tests are anticipated, if DST's are run, the following requirements will be adhered to:

Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer (AO). However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DST's may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

b. The logging program will consist of Schlumberger Platform Express (or equivalent) to be run from base of surface casing to TD.

c. No cores are anticipated.

d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted no later than 30 days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well tested data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

e. The anticipated completion program is as follows: Perform multistage fracs and complete all productive zones present in the wellbore. Produce all zones commingled.

f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

7. Abnormal Temperatures and Pressures

a. The expected bottom hole pressure is 7150psig

The maximum bottom hole temperature anticipated is 175 degrees Fahrenheit.

b. No hydrogen sulfide gas is anticipated. Abnormal pressures will be controlled with mud weight and 5000# BOP and rotating head.

8. Anticipated Starting Dates and Notifications of Operations

- a. Drilling is anticipated to commence immediately upon approval
- b. It is anticipated that the drilling of this well will take approximately 25 days.
- c. The Vernal BLM and UDOGM shall be notified of the anticipated date of location construction and anticipated spud date.
- d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior to approval from the AO will be obtained and notification given before resuming operations.
- e. The spud date will be reported orally to the AO within 48 hours of spudding. If the spudding occurs on a weekend or holiday, the report will be submitted via voice mail and/or e-mail to the AO.
- f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM and UDOGM.
- g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual or undesirable events shall be reported promptly to the AO in accordance with the requirements of NTL-3A or its revision.
- h. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, or prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- i. Should the well be successfully completed for production, the AO will be notified when the well is placed on producing status. Written notification, e-mail or otherwise, will be sent no later than 5 days following the date on which the well is placed on production.
- j. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- k. Pursuant to NTL-4A lessees or operators are authorized to vent/flare gas during initial well evaluation test, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day authorized test period.
- l. A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9.d.), shall be submitted to the BLM, Vernal Field Office and UDOGM within 60 days of installation or first production whichever occurs first. All site security regulations as specified in Onshore Order No.3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b.4.).
- m. A first production conference will be scheduled within 15 days after receipt of the first production notice.
- n. No well abandonment operations will commence without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed within 30 days following the completion of

the well for abandonment. The report will indicate where plugs were placed and the current status of the surface restoration. Final abandonment will not be approved until the surface reclamation work has been completed to the satisfaction of the AO.

o. Pursuant to Onshore Oil and Gas Order No.1, lessees and operators have the responsibility of operating in a manner which conforms with the applicable Federal laws and regulations and with the State and local laws and regulations to the extent that such laws are applicable to operations on Federal lands.

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

Phone: (435)781-4400

Fax: (435)781-4410

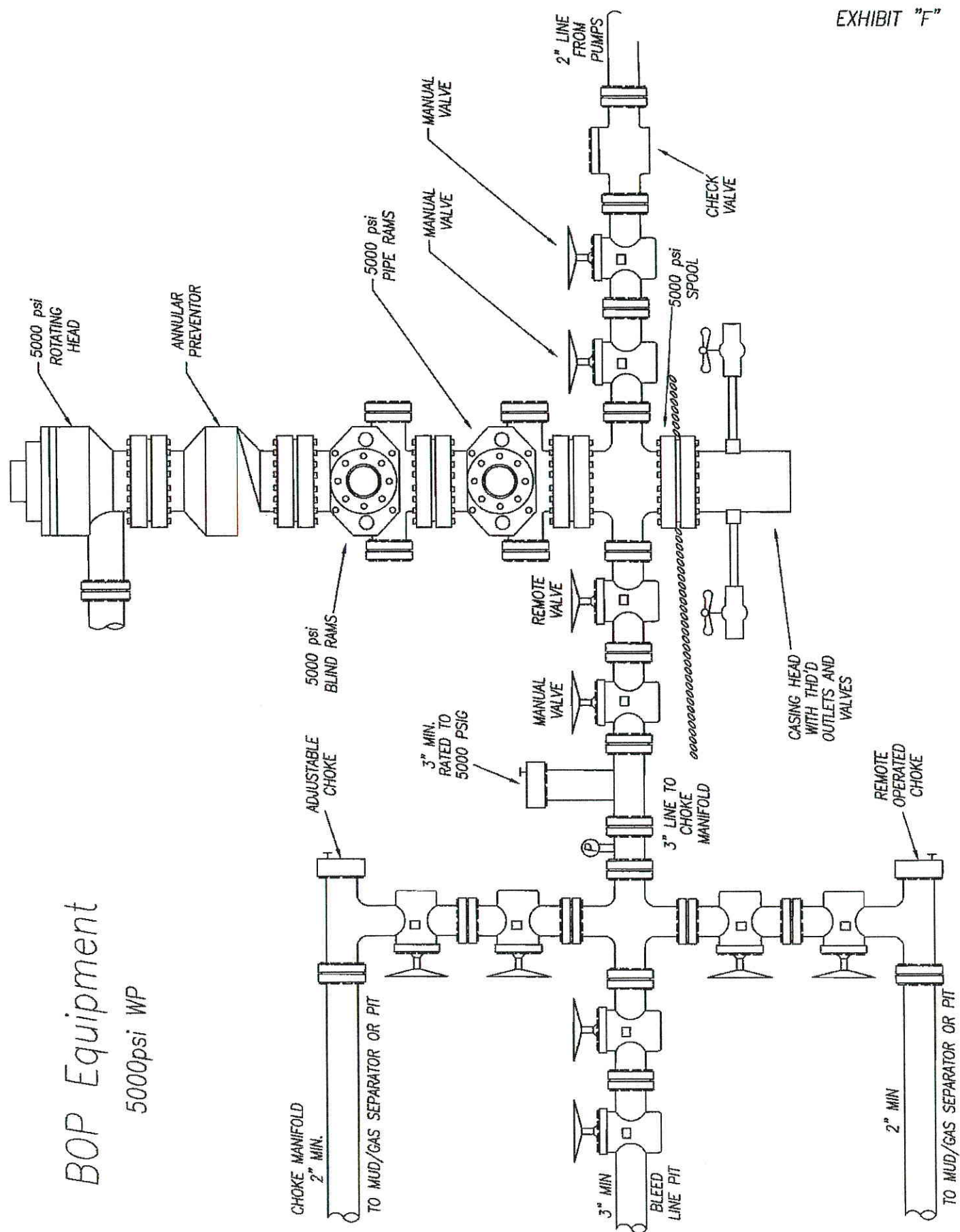
After Hours:

Michael Lee Petroleum Engineer (435)828-4470

Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

Phone 801-538-5340
Fax 801-539-3940

EXHIBIT "F"



BOP Equipment
5000psi WP



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

November 19, 2015

Gasco Production Company
7979 East Tufts Ave, Suite 1150
Englewood, CO 80112

Re: APD Rescinded – Federal 321-29-9-19, Sec. 29, T.9S, R.19E,
Uintah County, Utah API No. 43-047-53078


Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on September 18, 2012. On September 18, 2013 and September 23, 2014 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective November 19, 2015.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Vernal



Effective Date: 4/16/2015

FORMER OPERATOR:	NEW OPERATOR:
Gasco Production Company N2575 7979 E. Tufts Avenue, Suite 11500 Denver, CO 80237 303-996-1805	Badlands Production Company N4265 7979 E. Tufts Avenue, Suite 11500 Denver, CO 80237 303-996-1805
CA Number(s):	Unit(s): Gate Canyon, Wilkin Ridge Deep, RBU-EOR-GRRV

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 6/2/2015
2. Sundry or legal documentation was received from the **NEW** operator on: 6/2/2015
3. New operator Division of Corporations Business Number: 1454161-0143

REVIEW:

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: 6/2/2015
2. Receipt of Acceptance of Drilling Procedures for APD on: N/A
3. Reports current for Production/Disposition & Sundries: 6/3/2015
4. OPS/SI/TA well(s) reviewed for full cost bonding: 1/20/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: N/A
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): N/A

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: SUR0027842
2. Indian well(s) covered by Bond Number: N/A
3. State/fee well(s) covered by Bond Number(s): SUR0027845
SUR0035619 -FCB

DATA ENTRY:

1. Well(s) update in the **OGIS** on: 1/22/2016
2. Entity Number(s) updated in **OGIS** on: 1/22/2016
3. Unit(s) operator number update in **OGIS** on: 1/22/2016
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 1/22/2016
6. Surface Facilities update in **RBDMS** on: N/A

LEASE INTEREST OWNER NOTIFICATION:

1. The **NEW** operator of the Fee (Mineral) wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 1/22/2016

COMMENTS:

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

Well Name	Section	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
FEDERAL 23-18G-9-19	18	090S	190E	4304752496		Federal	Federal	OW	APD
FEDERAL 14-17G-9-19	17	090S	190E	4304752522		Federal	Federal	OW	APD
FEDERAL 13-18G-9-19	18	090S	190E	4304752538		Federal	Federal	OW	APD
FEDERAL 23-29G-9-19	29	090S	190E	4304752544		Federal	Federal	OW	APD
FEDERAL 24-20G-9-19	20	090S	190E	4304752545		Federal	Federal	OW	APD
FEDERAL 31-21G-9-19	21	090S	190E	4304752546		Federal	Federal	OW	APD
Federal 323-29-9-19	29	090S	190E	4304753026		Federal	Federal	GW	APD
Federal 421-29-9-19	29	090S	190E	4304753027		Federal	Federal	GW	APD
Federal 322-29-9-19	29	090S	190E	4304753029		Federal	Federal	GW	APD
Federal 431-29-9-19	29	090S	190E	4304753030		Federal	Federal	GW	APD
Federal 432-29-9-19	29	090S	190E	4304753031		Federal	Federal	GW	APD
Federal 414-29-9-19	29	090S	190E	4304753070		Federal	Federal	GW	APD
FEDERAL 412-29-9-19	29	090S	190E	4304753073		Federal	Federal	GW	APD
FEDERAL 213-29-9-19	29	090S	190E	4304753076		Federal	Federal	GW	APD
federal 321-29-9-19	29	090S	190E	4304753078		Federal	Federal	GW	APD
FEDERAL 213-29-9-19	29	090S	190E	4304753079		Federal	Federal	GW	APD
FEDERAL 321-29-9-19	29	090S	190E	4304753080		Federal	Federal	GW	APD
Federal 212-29-9-19	29	090S	190E	4304753133		Federal	Federal	GW	APD
State 321-32-9-19	32	090S	190E	4304754479		State	State	GW	APD
State 423-32-9-19	32	090S	190E	4304754480		State	State	GW	APD
State 421-32-9-19	32	090S	190E	4304754481		State	State	GW	APD
State 413-32-9-19	32	090S	190E	4304754482		State	State	GW	APD
State 323-32-9-19	32	090S	190E	4304754483		State	State	GW	APD
State 431-32-9-19	32	090S	190E	4304754529		State	State	GW	APD
Desert Spring State 224-36-9-18	36	090S	180E	4304754541		State	State	GW	APD
Desert Spring State 243-36-9-18	36	090S	180E	4304754542		State	State	GW	APD
Desert Spring State 241-36-9-18	36	090S	180E	4304754543		State	State	GW	APD
FEDERAL 332-30-9-19	30	090S	190E	4304753012	19650	Federal	Federal	GW	DRL
WILKIN RIDGE FED 43-29-10-17	29	100S	170E	4301333098	15941	Federal	Federal	GW	OPS
LAMB TRUST 11-23-9-19	23	090S	190E	4304736915	16556	Fee	Fee	GW	OPS
SHEEP WASH FED 43-26-9-18	26	090S	180E	4304738573	17201	Federal	Federal	GW	OPS
FEDERAL 13-19-9-19	19	090S	190E	4304739777	18344	Federal	Federal	GW	OPS
FEDERAL 12-17-9-19	17	090S	190E	4304739800	17202	Federal	Federal	GW	OPS
GATE CYN 31-21-11-15	21	110S	150E	4301332391	13787	State	State	GW	P
WILKIN RIDGE ST 12-32-10-17	32	100S	170E	4301332447	14033	State	State	GW	P
GATE CYN 41-20-11-15	20	110S	150E	4301332475	14417	State	State	GW	P
WILKIN RIDGE FED 34-17-10-17	17	100S	170E	4301332560	14726	Federal	Federal	GW	P
GATE CYN 41-19-11-16	19	110S	160E	4301332611	14439	Federal	Federal	GW	P
WILKIN RIDGE ST 44-32-10-17	32	100S	170E	4301332619	15649	State	State	GW	P
WILKIN RIDGE FED 12-4-11-17	4	110S	170E	4301332674	15537	Federal	Federal	GW	P
WILKIN RIDGE ST 24-32-10-17	32	100S	170E	4301332676	15242	State	State	GW	P
WILKIN RIDGE FED 23-29-10-17	29	100S	170E	4301332679	14033	Federal	Federal	GW	P
GATE CYN ST 23-16-11-15	16	110S	150E	4301332685	16082	State	State	GW	P
WILKIN RIDGE ST 34-16-10-17	16	100S	170E	4301332730	15243	State	State	GW	P
WILKIN RIDGE FED 31-29-10-17	29	100S	170E	4301332773	15370	Federal	Federal	GW	P
WILKIN RIDGE 32-08	8	110S	170E	4301332778	14802	Federal	Federal	GW	P
GATE CYN ST 23-16-11-16	16	110S	160E	4301332888	15098	State	State	GW	P
WILKIN RIDGE FED 24-20-10-17	20	100S	170E	4301333081	15714	Federal	Federal	GW	P
WILKIN RIDGE FED 32-20-10-17	20	100S	170E	4301333087	15807	Federal	Federal	GW	P
WILKIN RIDGE FED 14-4-11-17	4	110S	170E	4301333099	15920	Federal	Federal	GW	P
RYE PATCH FED 22-21	22	110S	140E	4301333437	16919	Federal	Federal	GW	P
RYE PATCH FED 24-21	24	110S	140E	4301333443	16367	Federal	Federal	GW	P
SQUAW CROSSING U 5	2	100S	180E	4304730129	16266	State	State	OW	P
RBW 5-11D	11	100S	180E	4304730409	9005	Federal	Federal	OW	P
FEDERAL 7-25A	25	090S	180E	4304730624	9030	Federal	Federal	OW	P

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

RBU 6-2D	2	100S	180E	4304731190	7075	State	State	OW	P
NGC 33-18J	18	090S	190E	4304731200	6155	Federal	Federal	OW	P
RBU 13-2D	2	100S	180E	4304731280	16267	State	State	OW	P
RBU 16-3D	3	100S	180E	4304731352	16268	Federal	Federal	OW	P
RBU 10-11D	11	100S	180E	4304731357	7053	Federal	Federal	OW	P
RBU 8-10D	10	100S	180E	4304731364	4955	Federal	Federal	OW	P
RBU 15-3D	3	100S	180E	4304731539	9965	Federal	Federal	OW	P
RBU 12-12D	12	100S	180E	4304731651	10688	Federal	Federal	OW	P
RBU 2-10D	10	100S	180E	4304731801	10784	Federal	Federal	OW	P
RBU 3-15D	15	100S	180E	4304733600	13213	Federal	Federal	OW	P
RBU 3-12D	12	100S	180E	4304733739	14492	Federal	Federal	OW	P
STATE 7-36A	36	090S	180E	4304733741	14244	State	State	GW	P
FEDERAL 34-29	29	090S	190E	4304733750	13174	Federal	Federal	GW	P
FEDERAL 24-7 #1	7	100S	180E	4304733983	13182	Federal	Federal	GW	P
FEDERAL 23-29 #1	29	090S	190E	4304734111	13441	Federal	Federal	GW	P
FED 24-20-9-19	20	090S	190E	4304734168	14150	Federal	Federal	GW	P
FED 44-20-9-19	20	090S	190E	4304734169	14140	Federal	Federal	GW	P
FED 23-21-9-19	21	090S	190E	4304734199	13601	Federal	Federal	GW	P
FED 32-31-9-19	31	090S	190E	4304734201	13641	Federal	Federal	GW	P
FED 42-29-9-19	29	090S	190E	4304734202	13455	Federal	Federal	GW	P
PETES WASH 23-12 #1	12	100S	170E	4304734286	13492	Federal	Federal	GW	P
STATE 4-32B	32	090S	190E	4304734314	14440	State	State	GW	P
FED 14-18-2 #1	18	100S	180E	4304734539	13491	Federal	Federal	GW	P
FED 43-24-3 #1	24	100S	170E	4304734551	13726	Federal	Federal	GW	P
LYTHAM FED 22-22-9-19	22	090S	190E	4304734607	13640	Federal	Federal	GW	P
FED 11-21-9-19	21	090S	190E	4304734608	14151	Federal	Federal	GW	P
FED 22-30-10-18	30	100S	180E	4304734924	14280	Federal	Federal	GW	P
FEDERAL 43-30-9-19	30	090S	190E	4304735343	14202	Federal	Federal	GW	P
FED 11-22-9-19	22	090S	190E	4304735404	14203	Federal	Federal	GW	P
FED 42-21-9-19	21	090S	190E	4304735405	14928	Federal	Federal	GW	P
STATE 24-16-9-19	16	090S	190E	4304735588	14418	State	Federal	GW	P
FEDERAL 31-21-9-19	21	090S	190E	4304735606	14441	Federal	Federal	GW	P
FEDERAL 12-29-9-19	29	090S	190E	4304735614	14442	Federal	Federal	GW	P
FEDERAL 24-31-9-19	31	090S	190E	4304735623	14640	Federal	Federal	GW	P
FEDERAL 41-31-9-19	31	090S	190E	4304735624	14419	Federal	Federal	GW	P
LAMB TRUST 24-22-9-19	22	090S	190E	4304735732	14496	Fee	Fee	GW	P
LAMB TRUST 24-14-9-19	14	090S	190E	4304735733	14519	Fee	Fee	GW	P
FEDERAL 11-22-10-18	22	100S	180E	4304735808	15592	Federal	Federal	GW	P
FEDERAL 21-6-10-19	6	100S	190E	4304735844	14356	Federal	Federal	GW	P
DESERT SPRING ST 41-36-9-18	36	090S	180E	4304735845	14639	State	State	GW	P
STATE 12-32-9-19	32	090S	190E	4304735995	14871	State	State	GW	P
FEDERAL 12-20-9-19	20	090S	190E	4304736093	14976	Federal	Federal	GW	P
FEDERAL 32-20-9-19	20	090S	190E	4304736094	16120	Federal	Federal	GW	P
FEDERAL 23-30-9-19	30	090S	190E	4304736095	14872	Federal	Federal	GW	P
SHEEP WASH FED 34-26-9-18	26	090S	180E	4304736113	15096	Federal	Federal	GW	P
DESERT SPRING ST 23-36-9-18	36	090S	180E	4304736219	14738	State	State	GW	P
DESERT SPRING ST 21-36-9-18	36	090S	180E	4304736220	14763	State	State	GW	P
DESERT SPRING ST 12-36-9-18	36	090S	180E	4304736233	14764	State	State	GW	P
DESERT SPRING ST 43-36-9-18	36	090S	180E	4304736241	14992	State	State	GW	P
DESERT SPRING ST 34-36-9-18	36	090S	180E	4304736242	14716	State	State	GW	P
FEDERAL 14-31-9-19	31	090S	190E	4304736271	15884	Federal	Federal	GW	P
FEDERAL 12-31-9-19	31	090S	190E	4304736336	15086	Federal	Federal	GW	P
FEDERAL 21-31-9-19	31	090S	190E	4304736368	15605	Federal	Federal	GW	P
FEDERAL 23-31-9-19	31	090S	190E	4304736442	15715	Federal	Federal	GW	P
SHEEP WASH FED 43-25-9-18	25	090S	180E	4304736600	14977	Federal	Federal	GW	P
FEDERAL 43-19-9-19	19	090S	190E	4304736719	15186	Federal	Federal	GW	P

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

SHEEP WASH FED 21-25-9-18	25	090S	180E	4304736727	15475	Federal	Federal	GW	P
FEDERAL 21-30-9-19	30	090S	190E	4304736739	15476	Federal	Federal	GW	P
SHEEP WASH FED 23-25-9-18	25	090S	180E	4304736740	15213	Federal	Federal	GW	P
FEDERAL 23-19-9-19	19	090S	190E	4304736771	15355	Federal	Federal	GW	P
SHEEP WASH FED 41-25-9-18	25	090S	180E	4304736772	15338	Federal	Federal	GW	P
FEDERAL 41-30-9-19	30	090S	190E	4304736817	15212	Federal	Federal	GW	P
LAMB TRUST 34-22-9-19	22	090S	190E	4304736913	15187	Fee	Fee	GW	P
LAMB TRUST 14-14-9-19	14	090S	190E	4304736916	17012	Fee	Fee	GW	P
DESERT SPRING ST 33-36-9-18	36	090S	180E	4304737115	15011	State	State	GW	P
FEDERAL 14-17-9-19	17	090S	190E	4304737116	16163	Federal	Federal	GW	P
FEDERAL 34-18-9-19	18	090S	190E	4304737117	16275	Federal	Federal	GW	P
UTELAND ST 41-2-10-18	2	100S	180E	4304737132	15087	State	State	GW	P
UTELAND ST 43-2-10-18	2	100S	180E	4304737338	15365	State	State	GW	P
FEDERAL 41-19-9-19	19	090S	190E	4304737611	16311	Federal	Federal	GW	P
FEDERAL 32-30-9-19	30	090S	190E	4304737612	16051	Federal	Federal	GW	P
FEDERAL 12-30-9-19	30	090S	190E	4304737613	16052	Federal	Federal	GW	P
FEDERAL 21-19-9-19	19	090S	190E	4304737621	16253	Federal	Federal	GW	P
FEDERAL 14-18-9-19	18	090S	190E	4304737622	16264	Federal	Federal	GW	P
FEDERAL 34-30-9-19	30	090S	190E	4304737630	16557	Federal	Federal	GW	P
DESERT SPRING FED 21-1-10-18	1	100S	180E	4304737631	15961	Federal	Federal	GW	P
FEDERAL 12-1-10-18	1	100S	180E	4304737646	16023	Federal	Federal	GW	P
SHEEP WASH FED 14-25-9-18	25	090S	180E	4304737647	16121	Federal	Federal	GW	P
UTELAND ST 21-2-10-18	2	100S	180E	4304737676	16254	State	State	GW	P
UTELAND ST 12-2-10-18	2	100S	180E	4304737677	15806	State	State	GW	P
UTELAND ST 34-2-10-18	2	100S	180E	4304738028	16868	State	State	GW	P
FEDERAL 14-19-9-19	19	090S	190E	4304738336	16467	Federal	Federal	GW	P
FEDERAL 34-19-9-19	19	090S	190E	4304738337	16119	Federal	Federal	GW	P
SHEEP WASH FED 41-26-9-18	26	090S	180E	4304738351	16884	Federal	Federal	GW	P
SHEEP WASH FED 32-25-9-18	25	090S	180E	4304738352	16349	Federal	Federal	GW	P
SHEEP WASH FED 34-25-9-18	25	090S	180E	4304738353	16210	Federal	Federal	GW	P
FEDERAL 12-19-9-19	19	090S	190E	4304738407	16236	Federal	Federal	GW	P
SHEEP WASH FED 23-26-9-18	26	090S	180E	4304738465	16558	Federal	Federal	GW	P
SHEEP WASH FED 12-25-9-18	25	090S	180E	4304738469	16449	Federal	Federal	GW	P
FEDERAL 23-18-9-19	18	090S	190E	4304738575	16312	Federal	Federal	GW	P
LAMB TRUST 34-22A-9-19	22	090S	190E	4304738673	15832	Fee	Fee	GW	P
UTELAND FED 42-11-10-18	11	100S	180E	4304738896	16792	Federal	Federal	GW	P
STATE 21-32B	32	090S	190E	4304739170	16309	State	State	GW	P
STATE 22-32A	32	090S	190E	4304739171	16308	State	State	GW	P
STATE 21-32A	32	090S	190E	4304739172	16310	State	State	GW	P
FEDERAL 11-19-9-19	19	090S	190E	4304739717	17054	Federal	Federal	GW	P
SHEEP WASH FED 31-25-9-18	25	090S	180E	4304739729	17241	Federal	Federal	GW	P
SHEEP WASH FED 11-25-9-18	25	090S	180E	4304739730	17266	Federal	Federal	GW	P
DESERT SPG FED 41-1-10-18	1	100S	180E	4304739773	17013	Federal	Federal	GW	P
FED 32-19X-9-19(RIGSKID)	19	090S	190E	4304740233	17014	Federal	Federal	GW	P
FEDERAL 23-30G-9-19	30	090S	190E	4304751280	18211	Federal	Federal	OW	P
FEDERAL 34-19G-9-19	19	090S	190E	4304751281	18210	Federal	Federal	OW	P
FEDERAL 442-30-9-19	30	090S	190E	4304752870	19647	Federal	Federal	GW	P
FEDERAL 333-30-9-19	30	090S	190E	4304752872	19648	Federal	Federal	GW	P
FEDERAL 423-30-9-19	30	090S	190E	4304753011	19649	Federal	Federal	GW	P
Desert Springs State 412-36-9-18	36	090S	180E	4304753324	19783	State	State	GW	P
Desert Springs State 424-36-9-18	36	090S	180E	4304753325	19783	State	State	GW	P
Desert Springs State 133-36-9-18	36	090S	180E	4304753326	19747	State	State	GW	P
Desert Spring State 142-36-9-18	36	090S	180E	4304753327	19747	State	State	GW	P
DESERT SPRINGS ST 422-36-9-18	36	090S	180E	4304753328	19783	State	State	GW	P
WILKIN RIDGE ST 31-32-10-17	32	100S	170E	4301332677	15144	State	State	GW	S
RBW 4-11D	11	100S	180E	4304730718	16269	Federal	Federal	OW	S

From: Gasco Production Company
 To: Badlands Production Company
 Effective Date: 4/16/2015

RBU 2-11D	11	100S	180E	4304730826	16270	Federal	Federal	OW	S
RBU 6-11D	11	100S	180E	4304731192	16271	Federal	Federal	OW	S
STATE 2-32B	32	090S	190E	4304732221	11371	State	State	GW	S
STATE 9-36A	36	090S	180E	4304732225	11364	State	State	GW	S
FEDERAL 13-30B	30	090S	190E	4304733581	13249	Federal	Federal	GW	S
STATE 13-36A	36	090S	180E	4304733598	17838	State	State	GW	S
FEDERAL 16-26A	26	090S	180E	4304733601	12928	Federal	Federal	GW	S
FEDERAL 31-29	29	090S	190E	4304733653	13077	Federal	Federal	GW	S
RBU 1-10D	10	100S	180E	4304734312	16265	Federal	Federal	OW	S
FEDERAL 13-18-9-19	18	090S	190E	4304739776	17149	Federal	Federal	GW	S

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-76482
2. NAME OF OPERATOR: Gasco Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 7979 E. Tufts Ave. CITY Denver STATE CO ZIP 80237		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0633 FNL 1512 FWL		8. WELL NAME and NUMBER: Desert Spring Fed 21-1-10-18
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 1 10S 18E S		9. API NUMBER: 4304737631
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Uteland Butte
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 4/16/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco Production Company requests a change of operator on this well, in addition to the wells on the attached list from Gasco Production Company to Badlands Production Company, effective date of 4/16/2015.

Gasco Production Company
7979 E Tufts Ave, Suite 1150
Denver CO 80237
303-996-1805

Michael Decker, Exec. Vice President & COO

Badlands Production Company
7979 E Tufts Ave, Suite 1150
Denver CO 80237
303-996-1805

Michael Decker, Exec. Vice President & COO

RECEIVED

JUN 02 2015

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Lindsey Cooke	TITLE Engineering Tech
SIGNATURE <i>Lindsey Cooke</i>	DATE 5/18/2015

(This space for State use only)

APPROVED

JAN 22 2016

DIV. OIL GAS & MINING
BY: *Rachel Medina*

Well Name	Section	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
FEDERAL 332-30-9-19	30	090S	190E	4304753012	19650	Federal	Federal	GW	DRL
WILKIN RIDGE FED 43-29-10-17	29	100S	170E	4301333098	15941	Federal	Federal	GW	OPS
LAMB TRUST 11-23-9-19	23	090S	190E	4304736915	16556	Fee	Fee	GW	OPS
SHEEP WASH FED 43-26-9-18	26	090S	180E	4304738573	17201	Federal	Federal	GW	OPS
FEDERAL 13-19-9-19	19	090S	190E	4304739777	18344	Federal	Federal	GW	OPS
FEDERAL 12-17-9-19	17	090S	190E	4304739800	17202	Federal	Federal	GW	OPS
GATE CYN 31-21-11-15	21	110S	150E	4301332391	13787	State	State	GW	P
WILKIN RIDGE ST 12-32-10-17	32	100S	170E	4301332447	14033	State	State	GW	P
GATE CYN 41-20-11-15	20	110S	150E	4301332475	14417	State	State	GW	P
WILKIN RIDGE FED 34-17-10-17	17	100S	170E	4301332560	14726	Federal	Federal	GW	P
GATE CYN 41-19-11-16	19	110S	160E	4301332611	14439	Federal	Federal	GW	P
WILKIN RIDGE ST 44-32-10-17	32	100S	170E	4301332619	15649	State	State	GW	P
WILKIN RIDGE FED 12-4-11-17	4	110S	170E	4301332674	15537	Federal	Federal	GW	P
WILKIN RIDGE ST 24-32-10-17	32	100S	170E	4301332676	15242	State	State	GW	P
WILKIN RIDGE FED 23-29-10-17	29	100S	170E	4301332679	14033	Federal	Federal	GW	P
GATE CYN ST 23-16-11-15	16	110S	150E	4301332685	16082	State	State	GW	P
WILKIN RIDGE ST 34-16-10-17	16	100S	170E	4301332730	15243	State	State	GW	P
WILKIN RIDGE FED 31-29-10-17	29	100S	170E	4301332773	15370	Federal	Federal	GW	P
WILKIN RIDGE 32-08	8	110S	170E	4301332778	14802	Federal	Federal	GW	P
GATE CYN ST 23-16-11-16	16	110S	160E	4301332888	15098	State	State	GW	P
WILKIN RIDGE FED 24-20-10-17	20	100S	170E	4301333081	15714	Federal	Federal	GW	P
WILKIN RIDGE FED 32-20-10-17	20	100S	170E	4301333087	15807	Federal	Federal	GW	P
WILKIN RIDGE FED 14-4-11-17	4	110S	170E	4301333099	15920	Federal	Federal	GW	P
RYE PATCH FED 22-21	22	110S	140E	4301333437	16919	Federal	Federal	GW	P
RYE PATCH FED 24-21	24	110S	140E	4301333443	16367	Federal	Federal	GW	P
RBUS 5-11D	11	100S	180E	4304730409	9005	Federal	Federal	OW	P
FEDERAL 7-25A	25	090S	180E	4304730624	9030	Federal	Federal	OW	P
RBUS 6-2D	2	100S	180E	4304731190	7075	State	State	OW	P
NGC 33-18J	18	090S	190E	4304731200	6155	Federal	Federal	OW	P
RBUS 13-2D	2	100S	180E	4304731280	16267	State	State	OW	P
RBUS 16-3D	3	100S	180E	4304731352	16268	Federal	Federal	OW	P
RBUS 10-11D	11	100S	180E	4304731357	7053	Federal	Federal	OW	P
RBUS 8-10D	10	100S	180E	4304731364	4955	Federal	Federal	OW	P
RBUS 15-3D	3	100S	180E	4304731539	9965	Federal	Federal	OW	P
RBUS 12-12D	12	100S	180E	4304731651	10688	Federal	Federal	OW	P
RBUS 2-10D	10	100S	180E	4304731801	10784	Federal	Federal	OW	P
RBUS 3-15D	15	100S	180E	4304733600	13213	Federal	Federal	OW	P
RBUS 3-12D	12	100S	180E	4304733739	14492	Federal	Federal	OW	P
STATE 7-36A	36	090S	180E	4304733741	14244	State	State	GW	P
FEDERAL 34-29	29	090S	190E	4304733750	13174	Federal	Federal	GW	P
FEDERAL 24-7 #1	7	100S	180E	4304733983	13182	Federal	Federal	GW	P
FEDERAL 23-29 #1	29	090S	190E	4304734111	13441	Federal	Federal	GW	P
FED 24-20-9-19	20	090S	190E	4304734168	14150	Federal	Federal	GW	P
FED 44-20-9-19	20	090S	190E	4304734169	14140	Federal	Federal	GW	P
FED 23-21-9-19	21	090S	190E	4304734199	13601	Federal	Federal	GW	P
FED 32-31-9-19	31	090S	190E	4304734201	13641	Federal	Federal	GW	P
FED 42-29-9-19	29	090S	190E	4304734202	13455	Federal	Federal	GW	P
PETES WASH 23-12 #1	12	100S	170E	4304734286	13492	Federal	Federal	GW	P
STATE 4-32B	32	090S	190E	4304734314	14440	State	State	GW	P
FED 14-18-2 #1	18	100S	180E	4304734539	13491	Federal	Federal	GW	P
FED 43-24-3 #1	24	100S	170E	4304734551	13726	Federal	Federal	GW	P
LYTHAM FED 22-22-9-19	22	090S	190E	4304734607	13640	Federal	Federal	GW	P
FED 11-21-9-19	21	090S	190E	4304734608	14151	Federal	Federal	GW	P
FED 22-30-10-18	30	100S	180E	4304734924	14280	Federal	Federal	GW	P
FEDERAL 43-30-9-19	30	090S	190E	4304735343	14202	Federal	Federal	GW	P
FED 11-22-9-19	22	090S	190E	4304735404	14203	Federal	Federal	GW	P
FED 42-21-9-19	21	090S	190E	4304735405	14928	Federal	Federal	GW	P
STATE 24-16-9-19	16	090S	190E	4304735588	14418	State	Federal	GW	P

FEDERAL 31-21-9-19	21	090S	190E	4304735606	14441	Federal	Federal	GW	P
FEDERAL 12-29-9-19	29	090S	190E	4304735614	14442	Federal	Federal	GW	P
FEDERAL 24-31-9-19	31	090S	190E	4304735623	14640	Federal	Federal	GW	P
FEDERAL 41-31-9-19	31	090S	190E	4304735624	14419	Federal	Federal	GW	P
LAMB TRUST 24-22-9-19	22	090S	190E	4304735732	14496	Fee	Fee	GW	P
LAMB TRUST 24-14-9-19	14	090S	190E	4304735733	14519	Fee	Fee	GW	P
FEDERAL 11-22-10-18	22	100S	180E	4304735808	15592	Federal	Federal	GW	P
FEDERAL 21-6-10-19	6	100S	190E	4304735844	14356	Federal	Federal	GW	P
DESERT SPRING ST 41-36-9-18	36	090S	180E	4304735845	14639	State	State	GW	P
STATE 12-32-9-19	32	090S	190E	4304735995	14871	State	State	GW	P
FEDERAL 12-20-9-19	20	090S	190E	4304736093	14976	Federal	Federal	GW	P
FEDERAL 32-20-9-19	20	090S	190E	4304736094	16120	Federal	Federal	GW	P
FEDERAL 23-30-9-19	30	090S	190E	4304736095	14872	Federal	Federal	GW	P
SHEEP WASH FED 34-26-9-18	26	090S	180E	4304736113	15096	Federal	Federal	GW	P
DESERT SPRING ST 23-36-9-18	36	090S	180E	4304736219	14738	State	State	GW	P
DESERT SPRING ST 21-36-9-18	36	090S	180E	4304736220	14763	State	State	GW	P
DESERT SPRING ST 12-36-9-18	36	090S	180E	4304736233	14764	State	State	GW	P
DESERT SPRING ST 43-36-9-18	36	090S	180E	4304736241	14992	State	State	GW	P
DESERT SPRING ST 34-36-9-18	36	090S	180E	4304736242	14716	State	State	GW	P
FEDERAL 14-31-9-19	31	090S	190E	4304736271	15884	Federal	Federal	GW	P
FEDERAL 12-31-9-19	31	090S	190E	4304736336	15086	Federal	Federal	GW	P
FEDERAL 21-31-9-19	31	090S	190E	4304736368	15605	Federal	Federal	GW	P
FEDERAL 23-31-9-19	31	090S	190E	4304736442	15715	Federal	Federal	GW	P
SHEEP WASH FED 43-25-9-18	25	090S	180E	4304736600	14977	Federal	Federal	GW	P
FEDERAL 43-19-9-19	19	090S	190E	4304736719	15186	Federal	Federal	GW	P
SHEEP WASH FED 21-25-9-18	25	090S	180E	4304736727	15475	Federal	Federal	GW	P
FEDERAL 21-30-9-19	30	090S	190E	4304736739	15476	Federal	Federal	GW	P
SHEEP WASH FED 23-25-9-18	25	090S	180E	4304736740	15213	Federal	Federal	GW	P
FEDERAL 23-19-9-19	19	090S	190E	4304736771	15355	Federal	Federal	GW	P
SHEEP WASH FED 41-25-9-18	25	090S	180E	4304736772	15338	Federal	Federal	GW	P
FEDERAL 41-30-9-19	30	090S	190E	4304736817	15212	Federal	Federal	GW	P
LAMB TRUST 34-22-9-19	22	090S	190E	4304736913	15187	Fee	Fee	GW	P
LAMB TRUST 14-14-9-19	14	090S	190E	4304736916	17012	Fee	Fee	GW	P
DESERT SPRING ST 33-36-9-18	36	090S	180E	4304737115	15011	State	State	GW	P
FEDERAL 14-17-9-19	17	090S	190E	4304737116	16163	Federal	Federal	GW	P
FEDERAL 34-18-9-19	18	090S	190E	4304737117	16275	Federal	Federal	GW	P
UTELAND ST 41-2-10-18	2	100S	180E	4304737132	15087	State	State	GW	P
UTELAND ST 43-2-10-18	2	100S	180E	4304737338	15365	State	State	GW	P
FEDERAL 41-19-9-19	19	090S	190E	4304737611	16311	Federal	Federal	GW	P
FEDERAL 32-30-9-19	30	090S	190E	4304737612	16051	Federal	Federal	GW	P
FEDERAL 12-30-9-19	30	090S	190E	4304737613	16052	Federal	Federal	GW	P
FEDERAL 21-19-9-19	19	090S	190E	4304737621	16253	Federal	Federal	GW	P
FEDERAL 14-18-9-19	18	090S	190E	4304737622	16264	Federal	Federal	GW	P
FEDERAL 34-30-9-19	30	090S	190E	4304737630	16557	Federal	Federal	GW	P
DESERT SPRING FED 21-1-10-18	1	100S	180E	4304737631	15961	Federal	Federal	GW	P
FEDERAL 12-1-10-18	1	100S	180E	4304737646	16023	Federal	Federal	GW	P
SHEEP WASH FED 14-25-9-18	25	090S	180E	4304737647	16121	Federal	Federal	GW	P
UTELAND ST 21-2-10-18	2	100S	180E	4304737676	16254	State	State	GW	P
UTELAND ST 12-2-10-18	2	100S	180E	4304737677	15806	State	State	GW	P
UTELAND ST 34-2-10-18	2	100S	180E	4304738028	16868	State	State	GW	P
FEDERAL 14-19-9-19	19	090S	190E	4304738336	16467	Federal	Federal	GW	P
FEDERAL 34-19-9-19	19	090S	190E	4304738337	16119	Federal	Federal	GW	P
SHEEP WASH FED 41-26-9-18	26	090S	180E	4304738351	16884	Federal	Federal	GW	P
SHEEP WASH FED 32-25-9-18	25	090S	180E	4304738352	16349	Federal	Federal	GW	P
SHEEP WASH FED 34-25-9-18	25	090S	180E	4304738353	16210	Federal	Federal	GW	P
FEDERAL 12-19-9-19	19	090S	190E	4304738407	16236	Federal	Federal	GW	P
SHEEP WASH FED 23-26-9-18	26	090S	180E	4304738465	16558	Federal	Federal	GW	P
SHEEP WASH FED 12-25-9-18	25	090S	180E	4304738469	16449	Federal	Federal	GW	P
FEDERAL 23-18-9-19	18	090S	190E	4304738575	16312	Federal	Federal	GW	P

LAMB TRUST 34-22A-9-19	22	090S	190E	4304738673	15832	Fee	Fee	GW	P
UTELAND FED 42-11-10-18	11	100S	180E	4304738896	16792	Federal	Federal	GW	P
STATE 21-32B	32	090S	190E	4304739170	16309	State	State	GW	P
STATE 22-32A	32	090S	190E	4304739171	16308	State	State	GW	P
STATE 21-32A	32	090S	190E	4304739172	16310	State	State	GW	P
FEDERAL 11-19-9-19	19	090S	190E	4304739717	17054	Federal	Federal	GW	P
SHEEP WASH FED 31-25-9-18	25	090S	180E	4304739729	17241	Federal	Federal	GW	P
SHEEP WASH FED 11-25-9-18	25	090S	180E	4304739730	17266	Federal	Federal	GW	P
DESERT SPG FED 41-1-10-18	1	100S	180E	4304739773	17013	Federal	Federal	GW	P
FED 32-19X-9-19(RIGSKID)	19	090S	190E	4304740233	17014	Federal	Federal	GW	P
FEDERAL 23-30G-9-19	30	090S	190E	4304751280	18211	Federal	Federal	OW	P
FEDERAL 34-19G-9-19	19	090S	190E	4304751281	18210	Federal	Federal	OW	P
FEDERAL 442-30-9-19	30	090S	190E	4304752870	19647	Federal	Federal	GW	P
FEDERAL 333-30-9-19	30	090S	190E	4304752872	19648	Federal	Federal	GW	P
FEDERAL 423-30-9-19	30	090S	190E	4304753011	19649	Federal	Federal	GW	P
Desert Springs State 412-36-9-18	36	090S	180E	4304753324	19783	State	State	GW	P
Desert Springs State 424-36-9-18	36	090S	180E	4304753325	19783	State	State	GW	P
Desert Springs State 133-36-9-18	36	090S	180E	4304753326	19747	State	State	GW	P
Desert Spring State 142-36-9-18	36	090S	180E	4304753327	19747	State	State	GW	P
DESERT SPRINGS ST 422-36-9-18	36	090S	180E	4304753328	19783	State	State	GW	P
WILKIN RIDGE ST 31-32-10-17	32	100S	170E	4301332677	15144	State	State	GW	S
SQUAW CROSSING U 5	2	100S	180E	4304730129	16266	State	State	OW	S
RBW 4-11D	11	100S	180E	4304730718	16269	Federal	Federal	OW	S
RBW 2-11D	11	100S	180E	4304730826	16270	Federal	Federal	OW	S
RBW 6-11D	11	100S	180E	4304731192	16271	Federal	Federal	OW	S
STATE 2-32B	32	090S	190E	4304732221	11371	State	State	GW	S
STATE 9-36A	36	090S	180E	4304732225	11364	State	State	GW	S
FEDERAL 13-30B	30	090S	190E	4304733581	13249	Federal	Federal	GW	S
STATE 13-36A	36	090S	180E	4304733598	17838	State	State	GW	S
FEDERAL 16-26A	26	090S	180E	4304733601	12928	Federal	Federal	GW	S
FEDERAL 31-29	29	090S	190E	4304733653	13077	Federal	Federal	GW	S
RBW 1-10D	10	100S	180E	4304734312	16265	Federal	Federal	OW	S
FEDERAL 13-18-9-19	18	090S	190E	4304739776	17149	Federal	Federal	GW	S